FRV DELAWARE II CRUISE
30 JUNE TO 7 JULY 1978
DATA REPORT

K. von Bock and W. Behrens, Editors

May 1982

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INTRODUCTION

This was the last of three companion cruises [cf. ARGUS Data Report 1980 BNL 28596] designed to provide broad-scale coverage of seasonal shelf conditions occurring between the April and October investigations undertaken aboard ATLANTIS II cruises 99 and 104. Its purpose was to measure trans-shelf and alongshore exchange/coherence of dominant biological and physiochemical variables as they relate to the cycling of Spring carbon fixation in the New York Bight and its upstream influence, Georges Bank. It also had the particular intention of exploring the probable relevance of the “cold pool” (Ketchum and Corwin, 1964) as a seasonal residence for specific zooplankton communities.

Classical hydrographic stations were chosen to generate profiles across Georges Bank, the “Shinnecock Transect” and along the intervening 60 m isobath. Measurements of historic water mass variables (ACE I-ACE III) were augmented by plankton collections and daily estimates of primary productivity. Thermal soundings were made to fill in temperature structure and suspended solids were counted to elucidate other biomass measurements.

METHODS

Hydrography

Temperature, Salinity

Temperatures are average values derived from paired Gohla reversing thermometers mounted to 5 l Niskin bottles and corrected according to standard methods. Salinity was measured ashore in a conductance salinometer (Guildline Autosal 8400), which was referenced to standard seawater (IAPSO Copenhagen or Wormley). Supplementary thermal structure was obtained from
interstation, underway soundings of Sippican Model T-10 XBTs. The manufacturer's specifications for accuracy are:

(1) System
   Temperature: ±0.2°C
   Depth: ±2 or 4.6 m, whichever is greater

(2) Probe
   Thermal response: 63% of a step change in temperature in 1 m; 95% of a step change in temperature in 3 m.

The traces were converted to digital values using a Hewlett-Packard 9872 plotter, the values interpolated to 1 m averages, and the traces subsequently regenerated using a Hewlett-Packard 9845 computer. Their numbering scheme uses the station identification immediately preceding the sounding plus the letter "A".

**Chlorophyll a**

Discrete chlorophyll a/phaeophytin concentrations were measured fluorometrically using a Turner Designs Model 10 fluorometer. Glass-fiber filters retaining plankton from 140 ml samples were ground in 90% acetone and the fluorescent emission of a clarified extract measured before and after acidification with ~1-2 drops of 1.0 N HCl (Lorenzen, 1966).

The fluorometers had been calibrated using serial dilutions of a pure chlorophyll a standard derived from laboratory cultures of phytoplankton. The concentration of the standard was measured spectrophotometrically using an extinction coefficient of 87.67 l·cm⁻¹ g⁻¹ at 664 nm. The dilution (90% acetone) fluorences were read before (R₀) and after (Rₐ) acidification (10% HCl) on a least two sensitivity ranges. Calibration factors for all dilutions were computed by:
The mean $F'$ determination was accepted as the calibration factor for all subsequent instrument determinations of chlorophyll $a$ and concomitant phaeophytin, and any significant variation among the serial factors over the selected ranges has been compensated by internal adjustments.

**Nutrients**

60 mL samples were frozen (-20°C) after drawing and later analyzed ashore at BNL. Nitrate, nitrite, phosphate, and silicate were determined colorometrically. The automated methods used on a Technicon AutoAnalyzer utilized the analytical procedures of Murphy and Riley (1962) for reactive phosphorous and Armstrong and others (1967) for silicate and nitrate. Modifications were made to permit the use of small-volume glassware in the manifolds in order to optimize stability and sensitivity.

**Particulate Matter**

Abundance and size-frequency distribution of particulate material were determined with a Coulter Counter Model TA II. A 280-μm aperture tube was used, which quantified particles between 50.4 and 128.0 μm equivalent spherical diameter (ESD). Counting duration ranged from 60 to 300 seconds depending on particle concentration.

**Productivity**

Carbon assimilation rates were determined by innoculating, with 5μCi of $^{14}$C-labeled NaH$^{14}$CO$_3$, samples drawn from 10 Niskin bottles representing 100, 60, 26, 15, 5, and 1%, of incident radiation. Light attenuation
curves were calculated from secchi disk lowerings; incident surface radiation was measured by a photometer coupled to an integrator and attached near the incubator. The enriched bottles, screened for neutral density at respective light levels, were incubated with companion dark bottles from \( \approx 0800-1400 \) in natural light in flowing surface seawater. After filtration (Millipore HA), filters were fumed 60 sec over concentrated HCl and reserved in 10 ml scintillation solutions (Beckman Filter Solv.). Activity was later measured by a Beckman LS 3150T scintillation counter using external standardization. Dark count values were subtracted from sunlight values during rate calculation.

**Zooplankton**

Paired, 223 \( \mu \) nylon nets mounted to coupled 60 cm frames (Bongo) were hauled near-vertically from 100 m to surface, or, in shoaler waters, from within a few meters of bottom. Flow volumes were derived from a General Oceanics flowmeter which bridged one of the nets. One net collection was preserved in formalin and reserved for later onshore composition analysis. The other was processed for total catch estimates by being either washed entirely, or in fractions, to tared filters which were subsequently dried (\( 60^\circ C \)) to constant weight and measured by an analytical balance.

During subsequent analysis for taxa and abundance estimates, aliquots from each collection were withdrawn with a Stempel pipette and counting/identification proceeded through successive aliquots until 50 individuals per category had been identified; however, not more than 5 aliquots were drawn for any one category. Counts were multiplied by appropriate factors to yield concentration (No. \( m^{-3} \)) and/or standing stock (No. \( m^{-2} \)) estimates.
Phytoplankton

Samples were drawn from surface and the subsurface chlorophyll maxima, outlined by casting an FTD, and preserved immediately with 1-2 ml of Lugol's solution. During subsequent analysis ashore, 10 ml aliquots were settled in Üttermohl chambers and examined with an inverted microscope equipped with phase-contrast illumination. One-half, or the whole chamber, was counted depending upon cell density.
REFERENCES


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### Atlantic Coastal Experiment - 4 Delaware II Hydrography Data Report

#### Data Collection Details

- **Date:** 05-Apr-82
- **Time:** 15:31:00
- **Station:** 8
- **Date:** 30 Jun 78
- **Time:** 22:17:00
- **Latitude:** 40° 7.6' N
- **Longitude:** 72° 7.0' W
- **Depth:** 68 ft

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**Location:** Atlantic Coastal Experiment - Delaware II

**Report Details:**
- **Date:** 05-Apr-82
- **Time:** 15:31:00

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- 28 -
### Atlantic Coastal Experiment - 4 Delaware II Hydrography Data Report 05-Apr-82 15:31:00

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- DATA NOT TAKEN
# Atlantic Coastal Experiment - 4 Delaware II Hydrography Data Report

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- **Date:** 3 Jul 78
- **Time:** 03:52:00
- **Latitude:** 40° 53.2' N
- **Longitude:** 67° 56.0' W
- **Depth:** 58 m
- **Fluorometric Depth:**
- **Temperature:**
- **Salinity:**
- **σ-T:**
- **Chlorophyll:**
- **Phaeophytin:**

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### Hydrography Data Report

**Date:** 05-APR-82

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**WIND DIRECTION** | **WIND SPEED** | **WAVE DIRECTION** | **WAVE HEIGHT** | **WAVE PERIOD** | **BAROMETRIC PRESSURE**
--- | --- | --- | --- | --- | ---
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**AIR TEMP** | **DRI BULB** | **WEATHER** | **CLOUD TYPE** | **CLOUD AMOUNT** | **VISIBILITY**
--- | --- | --- | --- | --- | ---
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| ESTIMATED DEPTH | ACCEPTED DEPTH | TEMPERATURE | SALINITY | SIGMA-T | FLUOREOMTRIC CHLOROPHYLL | PHAEOPHYTIN |
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## ATLANTIC COASTAL EXPERIMENT - 4 DELAWARE II HYDROGRAPHY DATA REPORT

**Date:** 05-APR-82 **Time:** 15:31

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### Atlantic Coastal Experiment - 4 Delaware II Hydrography Data Report 05-Apr-82 15:31:00

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- DATA NOT TAKEN

- 37 -
## Atlantic Coastal Experiment - 4 Delaware II Hydrography Data Report

### Station and Time Information

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## Hydrography Data Report

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### Atlantic Coastal Experiment - 4 Delaware II Hydrography Data Report 05-Apr-82 15:31:00

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- DATA NOT TAKEN
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**Date:** 05-APR-81 15:31:00

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- 50 -
### Atlantic Coastal Experiment - 4 Delaware II Hydrography Data Report 05-Apr-82 15:31:00

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## ATLANTIC COASTAL EXPERIMENT - 4 DELAWARE II PRODUCTIVITY DATA REPORT 02-APR-

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- DATA NOT TAKEN
PHYTOPLANKTON DATA
**ATLANTIC COASTAL EXPERIMENT - 4**

**DELAWARE II PHYTOPLANKTON**

### TABLE OF UNITS

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE LOCAL</th>
<th>TIME LOCAL</th>
<th>LATITUDE DEGREES</th>
<th>LONGITUDE DEGREES</th>
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<th>SURFACE TEMPERATURE °C</th>
<th>ONE % LIGHT DEPTH M</th>
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### Atlantic Coastal Experiment - 4

**Delaware II Phytoplankton**

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<td>05:34:00</td>
<td>40 36.1 N</td>
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**Depth**: 0.0

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**Totals**: 13 100 4300

### Percent of Total

- Diatom: 48.84
- Dinoflagellate: 37.21
- Other: 13.95

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*Data not taken*
### ATLANIC COASTAL EXPERIMENT - 4

#### DELAWARE II PHYTOPLANKTON

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#### DEPTH
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#### TOTALS
- 15  100  36300

### PERCENT OF TOTAL

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- DATA NOT TAKEN

- 116 -
ATLANTIC COASTAL EXPERIMENT - 4

DELWARE II PHYTOPLANKTON

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**DEPTH**

0.0

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**SPECIES**

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**TOTALS**

12 100 5700

**PERCENT OF TOTAL**

| DIATOM         | 54.39 |
| DINOFLAGELLATE | 43.86 |
| OTHER          | 1.75  |

- DATA NOT TAKEN

- 117 -
### ATLANTIC COASTAL EXPERIMENT - 4

**DELAWARE II PHYTOPLANKTON**

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**DEPTH**

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### SPECIES

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**TOTALS**

12 | 100 | 4800

**PERCENT OF TOTAL**

- DIATOM                     | 37.50 |
- DIHOFLEGELLATE              | 54.17 |
- OTHER                      |  8.33 |

- DATA NOT TAKEN
ATLANTIC COASTAL EXPERIMENT - 4
DELWARE II PHYTOPLANKTON

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DEPTH 0.0

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TOTALS 14 100 4300

PERCENT
OFF TOTAL

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- DATA NOT TAKEN

- 119 -
**ATLANTIC COASTAL EXPERIMENT - 4**

**DELAWARE II PHYTOPLANKTON**

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**DEPTH**

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**SPECIES**

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<td>PERIDINUM CERASUS</td>
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<td>11.0</td>
<td>1.96</td>
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</table>

**TOTALS**

11 100 5100

**PERCENT OF TOTAL**

- DIATOM - 15.69
- DINOFLAGELLATE - 70.59
- OTHER - 15.73

- DATA NOT TAKEN

- 120 -
### Atlantic Coastal Experiment - 4

#### Delaware II Phytoplankton

<table>
<thead>
<tr>
<th>Station</th>
<th>Date</th>
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<th>Latitude</th>
<th>Longitude</th>
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<tbody>
<tr>
<td>4</td>
<td>30 Jun 78</td>
<td>14:46:00</td>
<td>40 30.4N</td>
<td>72 22.5W</td>
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<table>
<thead>
<tr>
<th>Sonic Surface</th>
<th>One % Light</th>
<th>Secchi Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth</td>
<td>Temperature</td>
<td>Depth</td>
</tr>
<tr>
<td>47</td>
<td>17.89</td>
<td>9</td>
</tr>
</tbody>
</table>

#### DEPTH

<table>
<thead>
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<th>Rank</th>
<th>%</th>
<th>NO/L</th>
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<tr>
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</tr>
<tr>
<td>Diophysis punctata</td>
<td>2.0</td>
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<tr>
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<td>100</td>
</tr>
<tr>
<td>Rhabdosphaera stylifer</td>
<td>6.0</td>
<td>2.17</td>
<td>100</td>
</tr>
<tr>
<td>Gymnodinium sp.</td>
<td>6.0</td>
<td>2.17</td>
<td>100</td>
</tr>
<tr>
<td>Peridinium sp.</td>
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<td>2.17</td>
<td>100</td>
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<tr>
<td>Cyclotella sp.</td>
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</tr>
<tr>
<td>Ceratium tripos</td>
<td>6.0</td>
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<td>100</td>
</tr>
<tr>
<td>Dinophysis norvegica</td>
<td>6.0</td>
<td>2.17</td>
<td>100</td>
</tr>
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</table>

**Totals**: 9 100 4600

#### Percent of Total

- Diatom: 80.43
- Dinoflagellate: 17.39
- Other: 2.17

- Data not taken
### Atlantic Coastal Experiment - 4
### Delaware II Phytoplankton

<table>
<thead>
<tr>
<th>Station</th>
<th>Date</th>
<th>Time</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
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<td>14:46:00</td>
<td>40 30.4 N</td>
<td>72 22.5 W</td>
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</tbody>
</table>

<table>
<thead>
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<th>Surface Temperature</th>
<th>One % Light</th>
<th>Secchi Depth</th>
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<tr>
<td>47</td>
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**Depth:** 20.0

### Species

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<td>Dinophysis acuta</td>
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<td>800</td>
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<td>600</td>
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<td>600</td>
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<tr>
<td>Prorocentrum micans</td>
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**Totals:** 12 100 15000

### Percent of Total

- Diatom - 6.67
- Dinoflagellate - 92.67
- Other - 0.67

- Data not taken
### Atlantic Coastal Experiment - 4

#### Delaware II Phytoplankton

<table>
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<th>Time</th>
<th>Latitude</th>
<th>Longitude</th>
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</thead>
<tbody>
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<td>16:41:00</td>
<td>40 24.4 N</td>
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<th>Secchi Depth</th>
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<tr>
<td>Depth</td>
<td>Temperature</td>
<td>Depth</td>
</tr>
<tr>
<td>55</td>
<td>19.32</td>
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**Depth**

0.0

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### Species

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**Totals**

1 100 100

**Percent of Total**

- Diatom - - 0.00
- Dinoflagellate - 100.00
- Other - - 0.00

- Data not taken
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<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
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<tbody>
<tr>
<td>5</td>
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<td>16:41:00</td>
<td>40 24.4 N</td>
<td>72 18.7 W</td>
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<table>
<thead>
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<th>ONE % LIGHT</th>
<th>SECCHI DEPTH</th>
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<tr>
<td>55</td>
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**DEPTHS**
20.0

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<tr>
<td>CERATIUM TRIPOS</td>
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<td>CERATIUM LINEATUM</td>
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**TOTALS**
2 100 1400

**PERCENT OF TOTAL**
- DIATOM - - - - - - 0.00
- DINOFLAGELLATE - 100.00
- OTHER - - - - - - 0.00

- DATA NOT TAKEN
### Atlantic Coastal Experiment - 4

**Delaware II Phytoplankton**

<table>
<thead>
<tr>
<th>Station</th>
<th>Date</th>
<th>Time</th>
<th>Latitude</th>
<th>Longitude</th>
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<tbody>
<tr>
<td>6</td>
<td>30 Jun 78</td>
<td>18:34:00</td>
<td>40 19.0 N</td>
<td>72 15.8 W</td>
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<table>
<thead>
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<td>Gonyaulax orientalis</td>
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<tr>
<td>Unidentified diatoms</td>
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<tr>
<td>Rhabdosphaera stylifer</td>
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<tr>
<td><strong>Totals</strong></td>
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</table>

**Percent of Total**

- Diatom: 42.31
- Dinoflagellate: 53.85
- Other: 3.85

- Data not taken
ATLANTIC COASTAL EXPERIMENT - 4
DELAWARE II PHYTOPLANKTON

STATION DATE TIME LATITUDE LONGITUDE
6 30 JUN 78 18:34:00 40 19.0 N 72 15.8 W

SONIC SURFACE ONE % LIGHT SECCHI
DEPTH TEMPERATURE DEPTH DEPTH
57 20.17 - - 9

DEPTH
20.0

SPECIES RANK % NO/L

PERIDINiUM TROCHUDEUM - - - - 1.0 51.06 2400
DINOPHYsIS NORVEGICA - - - - 2.0 10.64 500
RHIZOSOLENIA HEBETATA F. SEMISPIHA 3.5 3.51 400
GYMNODINiUM SP - - - - - - 3.5 8.51 400
PERIDINiUM FAEROENSE - - - - - - 5.0 6.38 300
PERIDINiUM CERASUS - - - - - - 7.0 4.26 200
CERATiUM LONGiPES - - - - - - 7.0 4.26 200
GONYAULAX ORIENTALIS - - - - - - 7.0 4.26 200
CERATiUM TRiPOS - - - - - - 9.0 2.13 100

TOTALS 9 100 4700

PERCENT OF TOTAL

DIATOM - - - - 8.51
DINOFLAGELLATE - 91.49
OTHER - - - - 0.00

- DATA NOT TAKEN

- 126 -
<table>
<thead>
<tr>
<th>Specie</th>
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Percent of total

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<tr>
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<tr>
<td>Other</td>
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- Data not taken
ATLANTIC COASTAL EXPERIMENT - 4

DELAWARE II PHYTOPLANKTON

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DEPTH 20.0

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<tbody>
<tr>
<td>CERATIUM TRIPOS</td>
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<td>100.00</td>
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</table>

TOTALS 1 100 900

PERCENT OF TOTAL

DIATOM - - - - - - 0.00
DINOFLAGELLATE - 100.00
OTHER - - - - - - 0.00

- DATA NOT TAKEN
### ATLANTIC COASTAL EXPERIMENT - 4
#### DELAWARE II PHYTOPLANKTON

<table>
<thead>
<tr>
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<th>Longitude</th>
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<tbody>
<tr>
<td>8</td>
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<td>71 7.6 N</td>
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<table>
<thead>
<tr>
<th>Sonic Depth</th>
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<tbody>
<tr>
<td>68</td>
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**DEPTH**

<table>
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**TOTALS**

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<tr>
<th>PERCENT OF TOTAL</th>
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<tbody>
<tr>
<td>DIATOM</td>
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<tr>
<td>DINOFLAGELLATE</td>
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<td>OTHER</td>
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- DATA NOT TAKEN
ATLANTIC COASTAL EXPERIMENT - 4

DELAWARE II PHYTOPLANKTON

<table>
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<tr>
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<tbody>
<tr>
<td>8</td>
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<td>22:17:00</td>
<td>40 7.6 N</td>
<td>72 7.0 W</td>
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<table>
<thead>
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TOTALS 5 100 600

PERCENT OF TOTAL

DIATOM         0.00
DINOFLAGELLATE 100.00
OTHER          0.00

DATA NOT TAKEN
<table>
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**DEPTH**

0.0

**SPECIES**

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**TOTALS**

1 100 200

**PERCENT OF TOTAL**

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<tr>
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- DATA NOT TAKEN

- 131 -
ATLANTIC COASTAL EXPERIMENT - 4  DELAWARE II PHYTOPLANKTON

<table>
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<tr>
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<tr>
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<th>SURFACE TEMPERATURE</th>
<th>ONE % LIGHT</th>
<th>SECCHI DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>73</td>
<td>20.41</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DEPTH 20.0

SPECIES | RANK | % | NO/L |
---------|------|---|------|
CERATIUM TRIPOS | - - - - - - | 1.0 | 75.00 | 300 |
CERATIUM FUSUS | - - - - - - | 2.0 | 25.00 | 100 |

TOTALS 2 100 400

PERCENT OF TOTAL
DIATOM - - - - | 0.00 |
DI NOFLAGELLATE - | 100.00 |
OTHER - - - - | 0.00 |

DATA NOT TAKEN
### Delaware Ii Phytoplankton

<table>
<thead>
<tr>
<th>Station Date</th>
<th>Time</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>1 Jul 78</td>
<td>00:01:00</td>
<td>40 2.0 N 72 6.2 W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sonic Surface Temperature</th>
<th>One % Light</th>
<th>Secchi Depth</th>
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<tbody>
<tr>
<td>73</td>
<td>20.41</td>
<td>-</td>
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<table>
<thead>
<tr>
<th>Depth</th>
<th>30.0</th>
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<table>
<thead>
<tr>
<th>Species</th>
<th>Rank</th>
<th>%</th>
<th>NO/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceratium Tripos</td>
<td>-</td>
<td>1.0</td>
<td>100.00</td>
</tr>
</tbody>
</table>

| Totals | 1 | 100 | 2600 |

<table>
<thead>
<tr>
<th>Percent of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diatom</td>
</tr>
<tr>
<td>DiHoFlagellate</td>
</tr>
<tr>
<td>Other</td>
</tr>
</tbody>
</table>

- Data Not Taken
**Atlantic Coastal Experiment - 4**

<table>
<thead>
<tr>
<th>Species</th>
<th>Rank</th>
<th>%</th>
<th>No/L</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Gonyaulax orientalis</em></td>
<td>1.0</td>
<td>31.58</td>
<td>600</td>
</tr>
<tr>
<td><em>Ceratium tripos</em></td>
<td>2.0</td>
<td>21.05</td>
<td>400</td>
</tr>
<tr>
<td><em>Unidentified Nanoplankton</em></td>
<td>4.0</td>
<td>10.53</td>
<td>200</td>
</tr>
<tr>
<td><em>Gymnodinium sp.</em></td>
<td>4.0</td>
<td>10.53</td>
<td>200</td>
</tr>
<tr>
<td><em>Rhabdosphaera stylifer</em></td>
<td>4.0</td>
<td>10.53</td>
<td>200</td>
</tr>
<tr>
<td><em>Tintinnida</em></td>
<td>7.0</td>
<td>5.26</td>
<td>100</td>
</tr>
<tr>
<td><em>Polykrikos sp.</em></td>
<td>7.0</td>
<td>5.26</td>
<td>100</td>
</tr>
<tr>
<td><em>Dinophysis acuminata</em></td>
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<td>100</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td></td>
<td></td>
<td>1900</td>
</tr>
</tbody>
</table>

**Percent of Total**

- *Diatom* - 0.00
- *Dinoflagellate* - 73.68
- *Other* - 26.32

- Data not taken
ATLANTIC COASTAL EXPERIMENT - 4

DELARW ARE II PHYTOPLANKTON

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>1 JUL 78</td>
<td>02:04:00</td>
<td>39 56.0 N</td>
<td>72 3.5 W</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>SONIC</th>
<th>SURFACE</th>
<th>ONE % LIGHT</th>
<th>SECCHI</th>
</tr>
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<tr>
<td>DEPTH</td>
<td>TEMPERATURE</td>
<td>DEPTH</td>
<td>DEPTH</td>
</tr>
<tr>
<td>82</td>
<td>19.92</td>
<td>-</td>
<td>-</td>
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DEPTH
40.0

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**SPECIES**

<table>
<thead>
<tr>
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<th>RANK</th>
<th>%</th>
<th>NO/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERATIUM LONGIPES</td>
<td>-</td>
<td>1.0</td>
<td>92.88</td>
</tr>
<tr>
<td>AMPHIDINIUM SP.</td>
<td>-</td>
<td>2.0</td>
<td>7.14</td>
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TOTALS 2 100 1400

<table>
<thead>
<tr>
<th>PERCENT OF TOTAL</th>
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</thead>
<tbody>
<tr>
<td>DIATOM - - - -</td>
</tr>
<tr>
<td>DINOFLAGELLATE -</td>
</tr>
<tr>
<td>OTHER - - - -</td>
</tr>
</tbody>
</table>

- DATA NOT TAKEN
**ATLANTIC COASTAL EXPERIMENT - 4**

**DELWARE II PHYTOPLANKTON**

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>11PR</td>
<td>1 JUL 78</td>
<td>07:24:00</td>
<td>39 50.2 N</td>
<td>72 0.0 W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th>TEMPERATURE</th>
<th>ONE % LIGHT</th>
<th>SECCHI DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>113</td>
<td>-</td>
<td>37.0</td>
<td>12</td>
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</table>

**DEPTH**

| 0.0 |

**SPECIES**

<table>
<thead>
<tr>
<th>GYMNODINIUM SP</th>
<th>CERATIUM TRIPUS</th>
<th>GONYAULAX ORIENTALIS</th>
<th>RHABDOSPHAERA STYLIFER</th>
<th>TOTALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>- - - - - - - -</td>
<td>- - - - - - - -</td>
<td>- - - - - - - -</td>
<td>- - - - - - - -</td>
<td>4</td>
</tr>
<tr>
<td>1.0 42.86</td>
<td>2.0 28.57</td>
<td>3.5 14.29</td>
<td>3.5 14.29</td>
<td>100</td>
</tr>
</tbody>
</table>

**PERCENT OF TOTAL**

<table>
<thead>
<tr>
<th>DIATOM</th>
<th>DINOFLAGELLATE</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>- - - - - - - -</td>
<td>- - - - - - - -</td>
<td>- - - - - - - -</td>
</tr>
<tr>
<td>0.00</td>
<td>85.71</td>
<td>14.29</td>
</tr>
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</table>

- DATA NOT TAKEN
## Delaware 11 Phytoplankton

<table>
<thead>
<tr>
<th>Species</th>
<th>Rank</th>
<th>%</th>
<th>No/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melosira Sulcata</td>
<td>1.0</td>
<td>54.55</td>
<td>600</td>
</tr>
<tr>
<td>Unidentified Nanoplankton</td>
<td>2.0</td>
<td>18.18</td>
<td>200</td>
</tr>
<tr>
<td>Gonyaulax Orientalis</td>
<td>4.0</td>
<td>9.09</td>
<td>100</td>
</tr>
<tr>
<td>Peridinium sp.</td>
<td>4.0</td>
<td>9.09</td>
<td>100</td>
</tr>
<tr>
<td>Gymnodinium sp.</td>
<td>4.0</td>
<td>9.09</td>
<td>100</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td><strong>5</strong></td>
<td><strong>100</strong></td>
<td><strong>1100</strong></td>
</tr>
</tbody>
</table>

### Percent of Total

- Diatom: 54.55%
- Dinoflagellate: 27.27%
- Other: 18.18%

- Data Not Taken
**ATLANTIC COASTAL EXPERIMENT - 4**  
**DELAWARE I I PHYTOPLANKTON**

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>1 JUL 78</td>
<td>08:43:00</td>
<td>39 44.4 N</td>
<td>71 57.0 W</td>
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<table>
<thead>
<tr>
<th>DEPTH</th>
<th>TEMPERATURE</th>
<th>ONE % LIGHT</th>
<th>SECCHI DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>172</td>
<td>19.69</td>
<td>-</td>
<td>-</td>
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**DEPTH**
0.0

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<table>
<thead>
<tr>
<th>SPECIES</th>
<th>RANK</th>
<th>%</th>
<th>NO/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHABDOSPHAERA STYLIFER</td>
<td>2.0</td>
<td>28.57</td>
<td>200</td>
</tr>
<tr>
<td>GYMNODIUM SP</td>
<td>2.0</td>
<td>28.57</td>
<td>200</td>
</tr>
<tr>
<td>UNIDENTIFIED NANOPLANKTON</td>
<td>2.0</td>
<td>28.57</td>
<td>200</td>
</tr>
<tr>
<td>GYRODINIUM SP.</td>
<td>4.0</td>
<td>14.29</td>
<td>100</td>
</tr>
</tbody>
</table>

**TOTALS**
4 100 700

**PERCENT OF TOTAL**

| DIATOM                        | 0.00 |
| DINOFLAGELLATE                | 42.86|
| OTHER                         | 57.14|

- DATA NOT TAKEN
### ATLANTIC COASTAL EXPERIMENT - 4

#### DELAWARE II PHYTOPLANKTON

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>1 JUL 78</td>
<td>09:43:00</td>
<td>39 44.4 N</td>
<td>71 57.0 W</td>
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</tbody>
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<table>
<thead>
<tr>
<th>SONIC DEPTH</th>
<th>SURFACE TEMPERATURE</th>
<th>ONE % LIGHT</th>
<th>SECCHI DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>172</td>
<td>19.69</td>
<td></td>
<td></td>
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**DEPTH**

40.0

### SPECIES

<table>
<thead>
<tr>
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<th>RANK</th>
<th>%</th>
<th>NO/L</th>
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</thead>
<tbody>
<tr>
<td>GYMNODIUM SP</td>
<td>1.0</td>
<td>77.78</td>
<td>700</td>
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<tr>
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<td>22.22</td>
<td>200</td>
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<tr>
<td><strong>TOTALS</strong></td>
<td>2</td>
<td>100</td>
<td>900</td>
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</tbody>
</table>

**PERCENT OF TOTAL**

| DIATOM                       | 0.00 |
| DINOFLAGELLATE               | 77.78|
| OTHER                        | 22.22|

- DATA NOT TAKEN
ATLANTIC COASTAL EXPERIMENT - 4

DELAWARE II PHYTOPLANKTON

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>1 JUL 78</td>
<td>10:52:00</td>
<td>39 33.5 N</td>
<td>71 54.0 W</td>
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<table>
<thead>
<tr>
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<th>SURFACE</th>
<th>ONE % LIGHT</th>
<th>SECCHI</th>
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<tbody>
<tr>
<td>DEPTH</td>
<td>TEMPERATURE</td>
<td>DEPTH</td>
<td>DEPTH</td>
</tr>
<tr>
<td>702</td>
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DEPTH
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SPECIES

<table>
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<th>%</th>
<th>NO/L</th>
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<tbody>
<tr>
<td>CERATIUM TRIPOS</td>
<td>- - - - -</td>
<td>1.0</td>
<td>100.00</td>
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</table>

TOTALS
1 100 100

PERCENT
OF
TOTAL

DIATOM - - - - 0.00
DINOFLAGELLATE - 100.00
OTHER - - - - 0.00

- DATA NOT TAKEN
### Atlantic Coastal Experiment - 4 Delaware II Phytoplankton

<table>
<thead>
<tr>
<th>Station</th>
<th>Date</th>
<th>Time</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>1 Jul 78</td>
<td>13:42:00</td>
<td>39 33.6 N</td>
<td>71 50.5 W</td>
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<table>
<thead>
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<th>Sonic Depth</th>
<th>Surface Temperature</th>
<th>One % Light</th>
<th>Secchi Depth</th>
</tr>
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<tbody>
<tr>
<td>915</td>
<td>20.50</td>
<td>-</td>
<td>15</td>
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</tbody>
</table>

#### Species

<table>
<thead>
<tr>
<th>Species</th>
<th>Rank</th>
<th>%</th>
<th>No/L</th>
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<tbody>
<tr>
<td>Unidentified Nanoplankton</td>
<td>-</td>
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<td>31.03</td>
</tr>
<tr>
<td>Cyclotella sp.</td>
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<td>20.69</td>
</tr>
<tr>
<td>Gymnodinium sp.</td>
<td>-</td>
<td>4.5</td>
<td>10.34</td>
</tr>
<tr>
<td>Rhabdosphaera Stylifer</td>
<td>-</td>
<td>4.5</td>
<td>10.34</td>
</tr>
<tr>
<td>Rhizosolenia HEBETATA F. Semispina</td>
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<td>4.5</td>
<td>10.34</td>
</tr>
<tr>
<td>Ceratium fusus</td>
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<td>10.34</td>
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<td>Ceratium Tripos</td>
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<td><strong>Totals</strong></td>
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#### Percent of Total

<table>
<thead>
<tr>
<th>Category</th>
<th>%</th>
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<tbody>
<tr>
<td>Diatom</td>
<td>31.03</td>
</tr>
<tr>
<td>Dinoflagellate</td>
<td>27.59</td>
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<tr>
<td>Other</td>
<td>41.38</td>
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- Data not taken
ATLANTIC COASTAL EXPERIMENT - 4  DELAWARE II PHYTOPLANKTON

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
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<tbody>
<tr>
<td>14</td>
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<table>
<thead>
<tr>
<th>DEPTH</th>
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<th>SECCHI DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>915</td>
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Depth: 30.0

<table>
<thead>
<tr>
<th>SPECIES</th>
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<tbody>
<tr>
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<td>CYCLOTELLA SP</td>
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<tr>
<td>TOTALS</td>
<td>4</td>
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<td>2900</td>
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</table>

Percent of total:

| DIATOM      | 3.45 |
| DINOFLAGELLATE | 75.86 |
| OTHER       | 20.69 |

- DATA NOT TAKEN
ATLANTIC COASTAL EXPERIMENT - 4
DELWARE I. I PHYTOPLANKTON

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
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<th>LONGITUDE</th>
</tr>
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<tbody>
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<td>40 14.1 N</td>
<td>68 46.1 W</td>
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<table>
<thead>
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<th>SECCHI DEPTH</th>
</tr>
</thead>
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<td>134</td>
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DEPTH
0.0

SPECIES RANK % NO/L

<table>
<thead>
<tr>
<th>SPECIES</th>
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<th>%</th>
<th>NO/L</th>
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<tbody>
<tr>
<td>GYMNOCHLONIA SP</td>
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<td>DINOHYSAIS NORVEGICA</td>
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<td>100</td>
</tr>
<tr>
<td>PERIDINUM TROCHOIDUM</td>
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<td>9.09</td>
<td>100</td>
</tr>
<tr>
<td>CHROMONAS SP.</td>
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<td>9.09</td>
<td>100</td>
</tr>
<tr>
<td>DINOHYSAIS PUNCTATA</td>
<td>4.5</td>
<td>9.09</td>
<td>100</td>
</tr>
<tr>
<td>CERATIUM TRIPUS</td>
<td>4.5</td>
<td>9.09</td>
<td>100</td>
</tr>
<tr>
<td>CERATIUM FUSUS</td>
<td>4.5</td>
<td>9.09</td>
<td>100</td>
</tr>
</tbody>
</table>

TOTALS 7 100 1100

PERCENT OF TOTAL

| DIATOM - - - - - - | 0.00 |
| DINOFLAGELLATE - - | 90.91 |
| OTHER - - - - - -  | 9.09 |

- DATA NOT TAKEN
ATLANTIC COASTAL EXPERIMENT - 4

DELTAW ARE II PHYTOPLANKTON

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
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<tbody>
<tr>
<td>15PR</td>
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<td>07:40:00</td>
<td>40 14.1 N</td>
<td>68 46.1 W</td>
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</table>

| SONIC SURFACE ONE % LIGHT SECCHI DEPTH TEMPERATURE DEPTH DEPTH |
|------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 134              | -                | 32.0            | 13              |

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<th>DEPTH</th>
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<th>RANK</th>
<th>%</th>
<th>NO/L</th>
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<tr>
<td>GYMNOCHLAMUS SP</td>
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<td>800</td>
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<td>CERATINUM LONGIPES</td>
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<td>22.86</td>
<td>800</td>
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<td>5.71</td>
<td>200</td>
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<td>OXYTOKUS SP</td>
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<td>5.71</td>
<td>200</td>
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<td>CERATINUM TRIOS</td>
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<td>DINOPHYSIS PUNCTATA</td>
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<tr>
<td>MINUSCULA BIPES</td>
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<td>2.86</td>
<td>100</td>
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<tr>
<td>PERIDINUM TROCHOIDEUM</td>
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<td>2.86</td>
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<th>PERCENT OF TOTAL</th>
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<tbody>
<tr>
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<tr>
<td>DINOFLAGELLATE</td>
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<td>OTHER</td>
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- DATA NOT TAKEN

- 144 -
### Atlantic Coastal Experiment - 4

**Delaware II Phytoplankton**

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<th>Time</th>
<th>Latitude</th>
<th>Longitude</th>
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<tr>
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<td>2 JUL 78</td>
<td>18:28:00</td>
<td>40 27.4 N</td>
<td>67 31.7 W</td>
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<table>
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<th>One % Light</th>
<th>Secchi Depth</th>
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**Species**

<table>
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<tr>
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<th>Rank</th>
<th>%</th>
<th>No/L</th>
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<tbody>
<tr>
<td>Gymnodinium SP</td>
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<td>Synechococcus pulchella</td>
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<tr>
<td>Peridinium faeroense</td>
<td>4.0</td>
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<td>Chroomonas SP</td>
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<td>3.23</td>
<td>100</td>
</tr>
<tr>
<td>Ceratium fusus</td>
<td>6.5</td>
<td>3.23</td>
<td>100</td>
</tr>
<tr>
<td>Coccolithus Huxleyi</td>
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<td>3.23</td>
<td>100</td>
</tr>
<tr>
<td>Ceratium tripos</td>
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<td>3.23</td>
<td>100</td>
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**Totals**

<p>| | | |</p>
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**Percent of Total**

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<td>Other</td>
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*Data Not Taken*
### Atlantic Coastal Experiment - 4 Delaware II Phytoplankton

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<th>Latitude</th>
<th>Longitude</th>
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</thead>
<tbody>
<tr>
<td>17</td>
<td>2 Jul 78</td>
<td>18:28:00</td>
<td>40 27.4 N</td>
<td>67 31.7 W</td>
</tr>
</tbody>
</table>

### Sonic Surface One % Light Secchi Depth Temperature Depth Depth

| 136 | 18.84 | - | 14 |

**Depth:** 40.0

### Species

<table>
<thead>
<tr>
<th>Species</th>
<th>Rank</th>
<th>%</th>
<th>No/L</th>
</tr>
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<tbody>
<tr>
<td>Coccolithus Huxleyi</td>
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<td>40.00</td>
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<tr>
<td>Gymnodinium SP</td>
<td>-</td>
<td>2.0</td>
<td>20.00</td>
</tr>
<tr>
<td>Ceratium Tripos</td>
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<td>13.33</td>
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<tr>
<td>Peridinium Trochoideum</td>
<td>-</td>
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<td>13.33</td>
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<tr>
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<tr>
<td>Gyrodinium SP</td>
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<td>5.5</td>
<td>6.67</td>
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</table>

**Totals:** 6 100 1500

### Percent of Total

<table>
<thead>
<tr>
<th>Diatom</th>
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</thead>
<tbody>
<tr>
<td>Dinoflagellate</td>
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</tr>
<tr>
<td>Other</td>
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- Data not taken
ATLANTIC COASTAL EXPERIMENT - 4  DELAWARE II PHYTOPLANKTON

<table>
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<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
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</thead>
<tbody>
<tr>
<td>19</td>
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<table>
<thead>
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<th>SURFACE TEMPERATURE</th>
<th>ONE % LIGHT DEPTH</th>
<th>SECCHI DEPTH</th>
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<td>75</td>
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**DEPTH** 0.0

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**SPECIES**

<table>
<thead>
<tr>
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<th>RANK</th>
<th>%</th>
<th>NO/L</th>
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</thead>
<tbody>
<tr>
<td>GONYAULAX ORIENTALIS</td>
<td>1.0</td>
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<td>7400</td>
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<td>20.00</td>
<td>2700</td>
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<tr>
<td>PERIDINUM FAEROENSE</td>
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<td>8.89</td>
<td>1200</td>
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<td>DINOPHYSIS PUNCTATA</td>
<td>4.0</td>
<td>8.15</td>
<td>1100</td>
</tr>
<tr>
<td>CERATIUM LINEATUM</td>
<td>5.0</td>
<td>4.44</td>
<td>600</td>
</tr>
<tr>
<td>CERATIUM TRIPUS</td>
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<td>1.48</td>
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<tr>
<td>MINUSCULA BIPES</td>
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<td>0.74</td>
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<td>CERATIUM LONGIPES</td>
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<td>0.74</td>
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<td>DINOPHYSIS ACUTA</td>
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<td>0.74</td>
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<td><strong>TOTALS</strong></td>
<td>9</td>
<td>100</td>
<td>13500</td>
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</tbody>
</table>

**PERCENT OF TOTAL**

| DIATOM                  | 0.00 |
| DINOFLAGELATE           | 100.00|
| OTHER                   | 0.00 |

- DATA NOT TAKEN
<table>
<thead>
<tr>
<th>Species</th>
<th>Rank</th>
<th>%</th>
<th>NO/L</th>
</tr>
</thead>
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<tr>
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<tr>
<td>Ceratium longipes</td>
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<td>11.26</td>
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<tr>
<td>Peridinium trochoideum</td>
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<td>6.99</td>
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<tr>
<td>Ceratium tripos</td>
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<td>6.41</td>
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<tr>
<td>Gymnodinium sp</td>
<td>-</td>
<td>5.0</td>
<td>2.33</td>
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<tr>
<td>Ceratium tripos long+short</td>
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<td>1.55</td>
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<tr>
<td>Dinophysis punctata</td>
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<td>Cyclotella sp.</td>
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<tr>
<td>Peridinium sp.</td>
<td>-</td>
<td>9.5</td>
<td>0.39</td>
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<td><strong>TOTALS</strong></td>
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<td>100</td>
<td>25750</td>
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</table>

**Percent of Total**

- Diatom - 0.78
- Dinoflagellate - 98.83
- Other - 0.39

- Data not taken

- 148 -
ATLANTIC COASTAL EXPERIMENT - 4  DELAWARE II PHYTOPLANKTON

-----------------------------

STATION   DATE      TIME     LATITUDE   LONGITUDE
21  3 JUL 78  03:52:00  40 53.2 N  67 56.0 W

-----------------------------

SONIC   SURFACE   ONE % LIGHT   SECCHI
DEPTH   TEMPERATURE   DEPTH   DEPTH
58    12.13   -         -

-----------------------------

DEPTH
0.0

-----------------------------

SPECIES             RANK   %   NO/L

GONYAULAX ORIENTALIS  - - - - - 1.0  58.14   5000
PERIDINNIUM TROCHOIDUM - - - - - 2.0  12.79  1100
CERATIUM TRIPOS       - - - - - 3.0  8.14   700
GYMNODINIUM SP        - - - - - 4.0  6.98   600
PERIDINNIUM FAEROENSE - - - - - 5.0  5.81  500
DINOPHYTIS PUNCTATA   - - - - - 6.0  3.49  300
MINUSCULA BIPES       - - - - - 8.5  1.16  100
COSCINODISCUS CONCINNUS - - - - - 8.5  1.16  100
RHIZOSOLENIA HEBETATA F. SEMI SPINA 8.5  1.16  100
CERATIUM TRIPOS LONG+SHORT - - - - - 8.5  1.16  100

TOTALS 10 100  8800

-----------------------------

PERCENT
OF
TOTAL

DIATOM - - - - 2.33
DIHOFLAGELLATE - 97.67
OTHER - - - - 0.00

- DATA NOT TAKEN -
# Atlantic Coastal Experiment - 4
## Delaware II Phytoplankton

<table>
<thead>
<tr>
<th>Station</th>
<th>Date</th>
<th>Time</th>
<th>Latitude</th>
<th>Longitude</th>
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<tbody>
<tr>
<td>21</td>
<td>3 Jul 73</td>
<td>03:52:00</td>
<td>40 53.2 N</td>
<td>67 56.0 W</td>
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<th>Temperature</th>
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## Species

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<th>No/L</th>
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<tbody>
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<td>Ceratium tripos</td>
<td>1.0</td>
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<td>Ceratium tripos long short</td>
<td>2.0</td>
<td>20.00</td>
<td>200</td>
</tr>
<tr>
<td>Ceratium fusus</td>
<td>3.5</td>
<td>10.00</td>
<td>100</td>
</tr>
<tr>
<td>Ceratium lineatum</td>
<td>3.5</td>
<td>10.00</td>
<td>100</td>
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</table>

**Totals**: 4 100 1000

## Percent of Total

<table>
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<tr>
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<tbody>
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</tr>
<tr>
<td>Dinoflagellate</td>
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<tr>
<td>Other</td>
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- Data not taken
### Atlantic Coastal Experiment - 4

#### Delaware II Phytoplankton

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<th>Time</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>22PR</td>
<td>3 Jul 78</td>
<td>07:17:00</td>
<td>40° 59.6' N</td>
<td>69° 1.9' W</td>
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<table>
<thead>
<tr>
<th>Species</th>
<th>Rank</th>
<th>%</th>
<th>No/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gonyaulax orientalis</td>
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<td>4.88</td>
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<tr>
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<td>Dinophysis acuminata</td>
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<td>2.44</td>
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<td>Ceratium longipes</td>
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<td>12.5</td>
<td>2.44</td>
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<td>2.44</td>
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<tr>
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<td>12.5</td>
<td>2.44</td>
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<tr>
<td>Rhizosolenia hebetata f. semispina</td>
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<td>Pleurosigma sp.</td>
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### Percent of Total Atom

<table>
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<tr>
<td>Flagellate</td>
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### Data Not Taken

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<th>Value</th>
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**Note:** Data not taken

---
### Atlantic Coastal Experiment - 4

**Delaware II Phytoplankton**

<table>
<thead>
<tr>
<th>Station</th>
<th>Date</th>
<th>Time</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>22PR</td>
<td>3 Jul 78</td>
<td>07:17:00</td>
<td>40 59.6 N</td>
<td>68 1.9 W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sonic Depth</th>
<th>Surface Temperature</th>
<th>One % Light</th>
<th>Secchi Depth</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
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<th>Rank</th>
<th>%</th>
<th>No/L</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1.5</td>
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<tr>
<td>Rhizosolenia hebetata F. semispina</td>
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<td>22.22</td>
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<tr>
<td>Ceratium lineatum</td>
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<td>300</td>
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<tr>
<td>Peridinium trochoideum</td>
<td>4.0</td>
<td>6.67</td>
<td>300</td>
</tr>
<tr>
<td>Gymnodinium sp.</td>
<td>4.0</td>
<td>6.67</td>
<td>300</td>
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<tr>
<td>Navicula sp.</td>
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<tr>
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<td>Pleurosigma sp.</td>
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<td>4.44</td>
<td>200</td>
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<td>Gonyaulax orientalis</td>
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<td>Cyclotella sp.</td>
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<td>2.22</td>
<td>100</td>
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**Totals**: 14 100 4500

**Percent of Total**

- Diatom: 42.22
- Dinoflagellate: 57.78
- Other: 0.00

- Data Not Taken

---

**- 152 -**
### ATLANTIC COASTAL EXPERIMENT - 4  DELAWARE II PHYTOPLANKTON

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<thead>
<tr>
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<tr>
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### SPECIES

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<td>1.78</td>
<td>200</td>
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<tr>
<td>COCCOLITHUS HUXLEYI</td>
<td>10.5</td>
<td>1.78</td>
<td>200</td>
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<tr>
<td>RHABDOSPHAERA STYLIFER</td>
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<td>1.78</td>
<td>200</td>
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<td>POLYKRIKOS SP.</td>
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<td>200</td>
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<tr>
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TOTALS 17 100 11250

### PERCENT OF TOTAL

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- DATA NOT TAKEN

- 153 -
**ATLANTIC COASTAL EXPERIMENT - 4**  
**DELAWARE II PHYTOPLANKTON**

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<th>LONGITUDE</th>
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<tbody>
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**DEPTH**

20.0

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<th>NO/L</th>
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<td>PERIDINUM TROCHOIDESM</td>
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<td>PLEUROSIGMA SP.</td>
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<td>100</td>
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<td>RHABDOSPHAERA STYLIFER</td>
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**TOTALS**

17  100  28200

**PERCENT OF TOTAL**

<table>
<thead>
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- DATA NOT TAKEN

--- 154 ---
ATLANTIC COASTAL EXPERIMENT - 4

DELWARE II PHYTOPLANKTON

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<thead>
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<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
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<tbody>
<tr>
<td>23</td>
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<th>SECCHI DEPTH</th>
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<tr>
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| DEPTH | 20.0 |

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<tr>
<td>GONYAULAX ORIENTALIS</td>
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<td>-</td>
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</tr>
<tr>
<td>GYMNODINIUM SP</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>PERIDINUM CLAUDICANS</td>
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<td>POLYKRIKOS SP</td>
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<td>-</td>
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<td>CERATIUM LINEATUM</td>
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<tr>
<td>RABDGOSPHAERA STYLIFER</td>
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<td>-</td>
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<tr>
<td>CYCLOTELLA SP</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>DINOPHYSIS ACUTA</td>
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</tr>
<tr>
<td>PERIDINUM FAEROENSE</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PERIDINUM SP</td>
<td>-</td>
<td>-</td>
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<tr>
<td>CERATIUM TRIPOS LONG+SHORT</td>
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TOTALS 17 100 8000

PERCENT

OF TOTAL

DIATOM - 57.50
DINOFLAGELLATE - 41.25
OTHER - 1.25

- DATA NOT TAKEN
**Atlantic Coastal Experiment - 4 Delaware II Phytoplankton**

<table>
<thead>
<tr>
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<th>Latitude</th>
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**Depth**: $0.0$

**Species**

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<td>Coccolithus huxleyi</td>
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<td>Gyrodinium sp.</td>
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<td>Ceratium tripos</td>
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<td>Coscinodiscus sp.</td>
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**Totals**: 11 100 35500

**Percent of Total**

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- Data not taken

- 156 -
ATLANTIC COASTAL EXPERIMENT - 4 DELAWARE II PHYTOPLANKTON

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<th>SECCHI DEPTH</th>
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<tr>
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<tr>
<td></td>
<td>12.43</td>
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<th>NO/L</th>
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<tr>
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<td>6.10</td>
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<td>2.44</td>
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<td>2.44</td>
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| TOTALS | 16 | 100 | 8200 |

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<tr>
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<tr>
<td>Other</td>
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- DATA NOT TAKEN

- 157 -
### ATLANTIC COASTAL EXPERIMENT - 4 DELAWARE I1 PHYTOPLANKTON

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<th>SECCHI DEPTH</th>
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### DEPTH

20.0

<table>
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<th>RANK</th>
<th>%</th>
<th>NO/L</th>
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<tbody>
<tr>
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<tr>
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<td>18.60</td>
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<tr>
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<td>COSCIODISCUS SP.</td>
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<td>2.33</td>
<td>100</td>
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</table>

**TOTALS**

9 100 4300

### PERCENT OF TOTAL

| DIATOM | 16.28 |
| DINOFLAGELLATE | 72.09 |
| OTHER | 11.63 |

- DATA NOT TAKEN

- 158 -
ATLANTIC COASTAL EXPERIMENT - 4 DELAWARE II PHYTOPLANKTON

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
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<tr>
<td>27</td>
<td>3 JUL 78</td>
<td>17:49:00</td>
<td>41 32.1 N</td>
<td>68 33.4 W</td>
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<table>
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<th>SONIC DEPTH</th>
<th>SURFACE TEMPERATURE</th>
<th>ONE % LIGHT</th>
<th>SECCHI DEPTH</th>
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<tr>
<td>104</td>
<td>13.87</td>
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DEPTH
0.0

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<table>
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<th>RANK</th>
<th>%</th>
<th>NO/L</th>
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<tbody>
<tr>
<td>CERATIUM TRIPPOS</td>
<td>-</td>
<td>1.5</td>
<td>50.00</td>
</tr>
<tr>
<td>CERATIUM LINEATUM</td>
<td>-</td>
<td>1.5</td>
<td>50.00</td>
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TOTALS 2 100 200

---

PERCENT OF TOTAL

DIATOM - 0.00
DINOFLAGELLATE - 100.00
OTHER - 0.00

- DATA NOT TAKEN

- 159 -
ATLANTIC COASTAL EXPERIMENT - 4        DELAWARE II PHYTOPLANKTON

STATION  DATE       TIME       LATITUDE  LONGITUDE
        29  3 JUL 78  22:17:00  41 45.0 N  68 46.0 W

SONIC SURFACE ONE % LIGHT SECCHI
DEPTH TEMPERATURE DEPTH DEPTH
176    15.78      -          -

DEPTH
0.0

SPECIES          RANK  %       NO/L
GYMNODINIUM SP   -        1.0  26.92  700
PERIDINUM TROCHIDEUM -        2.0  23.08  600
CYCLOTELLA SP.   -        3.5  15.38  400
AMPHIDINIUM SP.  -        3.5  15.38  400
PERIDINUM FAEROENSE -        5.0  11.54  300
COSCINODISCUS CONCINNUS  -        6.5  3.85  100
CERATIUM LONGIPES  -        6.5  3.85  100

TOTALS          7       100     2600

PERCENT OF TOTAL
DIATOM -  -  -  19.23
DIHOFLAGELLATE -  80.77
OTHER -  -  -  0.00

- DATA NOT TAKEN
### DELAWARE II PHYTOPLANKTON

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<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>3 JUL 78</td>
<td>22:17:00</td>
<td>41 45.0 N</td>
<td>68 46.0 W</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>TEMPERATURE</th>
<th>ONE % LIGHT</th>
<th>SECCHI DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>176</td>
<td>15.78</td>
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<td>-</td>
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</tbody>
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**DEPTH**

20.0

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**SPE CIES**

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<th>%</th>
<th>NO/L</th>
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<tr>
<td>PERIDINIMUM TROCHOIDEUM</td>
<td>-</td>
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<tr>
<td>GYMNO DINUM SP</td>
<td>-</td>
<td>2.0</td>
<td>23.81</td>
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<tr>
<td>AMPHIDINUM SP</td>
<td>-</td>
<td>3.0</td>
<td>19.05</td>
</tr>
<tr>
<td>GYRO DINUM SP</td>
<td>-</td>
<td>4.0</td>
<td>7.14</td>
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<tr>
<td>COSCINO DISCUS SP</td>
<td>-</td>
<td>5.5</td>
<td>4.76</td>
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<tr>
<td>PERIDINIMUM FAEROENSE</td>
<td>-</td>
<td>5.5</td>
<td>4.76</td>
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<tr>
<td>CERATIUM LONGIPES</td>
<td>-</td>
<td>7.5</td>
<td>2.38</td>
</tr>
<tr>
<td>COCCOLITHUS HUXLEYI</td>
<td>-</td>
<td>7.5</td>
<td>2.38</td>
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</table>

**TOTALS**

8 100 4200

**PERCENT OF TOTAL**

- DIATOM - - - - - 4.76
- DINOFLAGELLATE - 92.85
- OTHER - - - - - 2.38

- DATA NOT TAKEN
### Atlantic Coastal Experiment - 4:

**Delaware II Phytoplankton**

<table>
<thead>
<tr>
<th>Station</th>
<th>Date</th>
<th>Time</th>
<th>Latitude</th>
<th>Longitude</th>
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</thead>
<tbody>
<tr>
<td>30PR</td>
<td>4 Jul 78</td>
<td>07:37:00</td>
<td>40 51.6 N</td>
<td>67 55.9 W</td>
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<table>
<thead>
<tr>
<th>Species</th>
<th>Rank</th>
<th>%</th>
<th>No/L</th>
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<tbody>
<tr>
<td>Gonyaulax Orientalis</td>
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<tr>
<td>Peridinium Trochoideum</td>
<td>3.0</td>
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</tr>
<tr>
<td>Cyclotella sp.</td>
<td>3.0</td>
<td>7.69</td>
<td>400</td>
</tr>
<tr>
<td>Coscinodiscus Radiatus</td>
<td>3.0</td>
<td>7.69</td>
<td>400</td>
</tr>
<tr>
<td>Rhizosolenia Shrubssolei</td>
<td>5.0</td>
<td>5.77</td>
<td>300</td>
</tr>
<tr>
<td>Dinophysis Punctata</td>
<td>6.5</td>
<td>3.85</td>
<td>200</td>
</tr>
<tr>
<td>Minuscula Bipes</td>
<td>5.5</td>
<td>3.85</td>
<td>200</td>
</tr>
<tr>
<td>Cochlodinium SP.</td>
<td>11.5</td>
<td>1.92</td>
<td>100</td>
</tr>
<tr>
<td>Ceratium Lineatum</td>
<td>11.5</td>
<td>1.92</td>
<td>100</td>
</tr>
<tr>
<td>Gyrodinium SP.</td>
<td>11.5</td>
<td>1.92</td>
<td>100</td>
</tr>
<tr>
<td>Rhabdosphaera Stylifer</td>
<td>11.5</td>
<td>1.92</td>
<td>100</td>
</tr>
<tr>
<td>Peridinium Faeroense</td>
<td>11.5</td>
<td>1.92</td>
<td>100</td>
</tr>
<tr>
<td>Ceratium Longipes</td>
<td>11.5</td>
<td>1.92</td>
<td>100</td>
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<tr>
<td>Peridinium Cerasus</td>
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<td>Amphidinium SP.</td>
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<tr>
<td><strong>TOTALS</strong></td>
<td><strong>15</strong></td>
<td><strong>100</strong></td>
<td><strong>5200</strong></td>
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</table>

**Percent of Total**

- Diatom: 21.15
- Dinoflagellate: 78.92
- Other: 1.92

- Data not taken

---

**- 162 -**
### Atlantic Coastal Experiment - 4 Delaware II Phytoplankton

<table>
<thead>
<tr>
<th>Species</th>
<th>Rank</th>
<th>%</th>
<th>NO/L</th>
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<tbody>
<tr>
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<td>Ceratium tripos</td>
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<tr>
<td>Cyclotella sp.</td>
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<td>5.13</td>
<td>200</td>
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<tr>
<td>Ceratium longipes</td>
<td>4.0</td>
<td>5.13</td>
<td>200</td>
</tr>
<tr>
<td>Peridinium faeroense</td>
<td>4.0</td>
<td>5.13</td>
<td>200</td>
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<tr>
<td>Ceratium lineatum</td>
<td>10.5</td>
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<td>100</td>
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<tr>
<td>Dinophysis ovum</td>
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<td>2.56</td>
<td>100</td>
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<td>Dinophysis acuminata</td>
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<td>2.56</td>
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<td>Coscinodiscus sp.</td>
<td>10.5</td>
<td>2.56</td>
<td>100</td>
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<td>Gyrodinium sp.</td>
<td>10.5</td>
<td>2.56</td>
<td>100</td>
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<tr>
<td>Cochlodinium sp.</td>
<td>10.5</td>
<td>2.56</td>
<td>100</td>
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<td>Dinophysis punctata</td>
<td>10.5</td>
<td>2.56</td>
<td>100</td>
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<tr>
<td>Gymnodinium sp.</td>
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<td>2.56</td>
<td>100</td>
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<td>Peridinium claudicans</td>
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<tr>
<td>Minuscula bipes</td>
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<tr>
<td><strong>TOTALS</strong></td>
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</table>

### Percent of Total

- Diatom: 7.69
- Dinoflagellate: 92.31
- Other: 0.00

---

- Data not taken
ATLANTIC COASTAL EXPERIMENT - 4  DELAWARE II PHYTOPLANKTON

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
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<tbody>
<tr>
<td>38PR</td>
<td>6 JUL 78</td>
<td>07:18:00</td>
<td>40 36.8 N</td>
<td>71 21.7 W</td>
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<table>
<thead>
<tr>
<th>DEPTH</th>
<th>SURFACE</th>
<th>ONE % LIGHT</th>
<th>SECCHI</th>
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<tbody>
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<td>0.0</td>
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<th>DEPTH</th>
<th>DEPTH</th>
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<tr>
<td>65</td>
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**SPECIES**

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<td>AMPHIDINIUM SP.</td>
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<td>15.38</td>
<td>200</td>
</tr>
<tr>
<td>CERATIUM LONGIPES</td>
<td>6.0</td>
<td>7.69</td>
<td>100</td>
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<tr>
<td>CERATIUM FUSUS</td>
<td>6.0</td>
<td>7.69</td>
<td>100</td>
</tr>
<tr>
<td>PERIDINIUM TROCHOIDEUM</td>
<td>6.0</td>
<td>7.69</td>
<td>100</td>
</tr>
<tr>
<td>COCCOLITHUS HUXLEYI</td>
<td>6.0</td>
<td>7.69</td>
<td>100</td>
</tr>
<tr>
<td>CYCLOTELLA SP.</td>
<td>6.0</td>
<td>7.69</td>
<td>100</td>
</tr>
<tr>
<td>PERIDINIUM FAEROENSE</td>
<td>6.0</td>
<td>7.69</td>
<td>100</td>
</tr>
<tr>
<td>GYMNOLOM TRAMO SP.</td>
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<td>7.69</td>
<td>100</td>
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**TOTALS**

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<tr>
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<tr>
<td>OF TOTAL</td>
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</tr>
<tr>
<td>DIATOM</td>
<td>-</td>
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<tr>
<td>DINOFLAGELLATE</td>
<td>-</td>
<td>53.85</td>
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<tr>
<td>OTHER</td>
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- DATA NOT TAKEN

- 164 -
### DELAWARE II PHYTOPLANKTON

**Station** 38PR  
**Date** 6 Jul 78  
**Time** 07:18:00  
**Latitude** 40° 36.3' N  
**Longitude** 71° 21.7' W

<table>
<thead>
<tr>
<th>Species</th>
<th>Rank</th>
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<th>NO/L</th>
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</thead>
<tbody>
<tr>
<td>Cyclorella sp.</td>
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<td>38.46</td>
<td>500</td>
</tr>
<tr>
<td>Ceratium longipes</td>
<td>2.0</td>
<td>30.77</td>
<td>400</td>
</tr>
<tr>
<td>Coccolithus Huxleyi</td>
<td>3.0</td>
<td>15.38</td>
<td>200</td>
</tr>
<tr>
<td>Peridinium trochoideum</td>
<td>4.5</td>
<td>7.69</td>
<td>100</td>
</tr>
<tr>
<td>Coscinodiscus sp.</td>
<td>4.5</td>
<td>7.69</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>5</strong></td>
<td><strong>100</strong></td>
<td><strong>1300</strong></td>
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</table>

**Percent of Total**

- **Diatom** - - - - - 46.15
- **Dinoflagellate** - - - - - 38.46
- **Other** - - - - - 15.38

- Data Not Taken
<table>
<thead>
<tr>
<th>STATION LOCAL</th>
<th>DATE LOCAL</th>
<th>TIME LOCAL</th>
<th>LATITUDE DEGREES</th>
<th>LONGITUDE DEGREES</th>
<th>SONIC DEPTH M</th>
<th>SURFACE TEMPERATURE C</th>
<th>NET MOUTH AREA M²</th>
<th>FLOW METER M/REV</th>
<th>NET MESH U</th>
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<tr>
<td></td>
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</table>
ATLANTIC COASTAL EXPERIMENT - 4  ZOOPLANKTON NET REPORT  02-APR-02  11:24

---

**STATION**   **DATE**   **TIME**   **LATITUDE**   **LONGITUDE**   **DEPTH**
1          30 JUN 78  05:55:00   40 36.1 N   72 25.4 W   40.0
---

**SURFACE**   **NET MOUTH**   **FLOW METER**   **NET**
TEMPERATURE   AREA   FACTOR   MESH
16.97   0.2877   0.1570   223
---

**NET TOW**   **FLOW**   **VOLUME**   **FRACTION**   **VOLUME**
DEPTH   METER   SAMPLE   COUNT   COUNT
33.0   260.   11.74   0.025   0.294
---

**SPECIES**   **RANK**   **COUNTS**   **%**   **NO./M3**   **NO./M2**
OITHONA SIMILIS   - - - - - - - - - -   1.0   660   47.86   2247.97   85423.
PSEUDOCALANUS SPP. C   - - - - - - - - - -   2.0   480   34.81   1634.89   62126.
PSEUDOCALANUS MINUTUS AF   - - - - - - - - - -   3.0   110   7.98   374.66   14237.
CHAETOGNATH   - - - - - - - - - -   4.0   85   6.16   289.51   11001.
CALANUS SPP. C   - - - - - - - - - -   5.0   23   1.67   78.54   2977.
PSEUDOCALANUS MINUTUS AM   - - - - - - - - - -   6.0   11   0.80   37.47   1424.
ACARTIA SPP. C   - - - - - - - - - -   7.0   4   0.29   13.62   518.
TEMORA SPP. C   - - - - - - - - - -   8.5   2   0.15   6.81   259.
CALANUS FINHARCHICUS A   - - - - - - - - - -   8.5   2   0.15   6.81   259.
ACARTIA LONGIREMIS AM   - - - - - - - - - -   10.5   1   0.07   3.41   129.
ACARTIA TONSA AF   - - - - - - - - - -   10.5   1   0.07   3.41   129.
---

TOTALS   11   1379   100   4696.90   173482.
---

**SIZE FRACTIONS (MICRONS)**

**GRAMS DRY WEIGHT**   **%**   **GM/M3**   **GM/M2**
223-505   - - - - - - - - - -   0.161   14.40   0.0137   0.52
505-1050   - - - - - - - - - -   0.044   3.94   0.0037   0.14
1050+   - - - - - - - - - -   0.913   81.66   0.0777   2.95
---

TOTALS   1.118   100   0.0952   3.62

---

DATA NOT TAKEN

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ATLANTIC COASTAL EXPERIMENT - 4 ZOOPLANKTON NET REPORT 02-APR-82 11:24

<table>
<thead>
<tr>
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<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>30 JUL 78</td>
<td>10:16:00</td>
<td>40 41.7 N</td>
<td>72 28.0 W</td>
<td>38.0</td>
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<table>
<thead>
<tr>
<th>SURFACE TEMPERATURE</th>
<th>NET MOUTH AREA</th>
<th>FLOW METER FACTOR</th>
<th>NET MESH</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.22</td>
<td>0.2327</td>
<td>0.1570</td>
<td>223</td>
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</tbody>
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<table>
<thead>
<tr>
<th>NET TOW DEPTH</th>
<th>FLOW METER VOLUME</th>
<th>SAMPLE FRACTION</th>
<th>VOLUME COUNT</th>
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<tr>
<td>35.0</td>
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<td>0.033</td>
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**SPECIES**

<table>
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<tr>
<th>SPECIES</th>
<th>RANK</th>
<th>COUNTS</th>
<th>%</th>
<th>NO./M3</th>
<th>NO./M2</th>
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<tbody>
<tr>
<td>PSEUDOCALANUS SPP. C</td>
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<td>55.46</td>
<td>1577.15</td>
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<tr>
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<td>17.17</td>
<td>488.17</td>
<td>17096.</td>
</tr>
<tr>
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<td>11.27</td>
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<td>11215.</td>
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<tr>
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<td>4.58</td>
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<td>4556.</td>
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<td>1.85</td>
<td>52.57</td>
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<td>1.67</td>
<td>47.56</td>
<td>1665.</td>
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<td>1.41</td>
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<td>1402.</td>
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<td>CALANUS SPP. C</td>
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<td>613.</td>
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<td>0.18</td>
<td>5.01</td>
<td>175.</td>
</tr>
<tr>
<td>ACARTIA LONGIREMIS AM</td>
<td>13.5</td>
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<td>0.09</td>
<td>2.50</td>
<td>88.</td>
</tr>
<tr>
<td>ACARTIA TONSA AM</td>
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<td>0.09</td>
<td>2.50</td>
<td>88.</td>
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**SIZE FRACTIONS (MICRONS)**

<table>
<thead>
<tr>
<th>SIZE FRACTIONS (MICRONS)</th>
<th>WEIGHT</th>
<th>%</th>
<th>GM/M3</th>
<th>GM/M2</th>
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<tr>
<td>223-505</td>
<td>0.046</td>
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- DATA NOT TAKEN -

- 170 -
### ZOOPLANKTON NET REPORT 02-APR-82 11:24

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>30 JUN 78</td>
<td>12:10:00</td>
<td>40 47.3 N</td>
<td>72 31.3 W</td>
<td>22.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SURFACE TEMPERATURE</th>
<th>NET MOUTH AREA</th>
<th>FLOW METER FACTOR</th>
<th>NET MESH</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.40</td>
<td>0.2827</td>
<td>0.1570</td>
<td>223</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>NET TOW DEPTH</th>
<th>FLOW METER SAMPLE</th>
<th>VOLUME</th>
<th>FRACTION COUNT</th>
<th>VOLUME COUNT</th>
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### SPECIES

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<th>NO./M3</th>
<th>NO./M2</th>
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<tr>
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<td>1.01</td>
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<td>1.42</td>
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</tr>
<tr>
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<td>1</td>
<td>0.04</td>
<td>1.42</td>
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</table>

**TOTALS** 15 2272 100 3233.04 64561

### SIZE FRACTIONS (MICRONS)

<table>
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<th>SIZE FRACTIONS (MICRONS)</th>
<th>GRAMS DRY WEIGHT</th>
<th>%</th>
<th>GM/M3</th>
<th>GM/M2</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0.068</td>
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<tr>
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<td>0.921</td>
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**TOTALS** 1.039 100 0.1232 2.46

- DATA NOT TAKEN

- 171 -
ATLANTIC COASTAL EXPERIMENT - 4  ZOOPLANKTON NET REPORT  02-APR-62  11:24

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
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<td>14:55:00</td>
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</table>

<table>
<thead>
<tr>
<th>SURFACE TEMPERATURE</th>
<th>NET MOUTH AREA</th>
<th>FLOW METER FACTOR</th>
<th>NET MESH</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.98</td>
<td>0.2827</td>
<td>0.1570</td>
<td>223</td>
</tr>
</tbody>
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<table>
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<tr>
<th>NET TOW DEPTH</th>
<th>FLOW METER VOLUME</th>
<th>FRACTION SAMPLE</th>
<th>COUNT VOLUME</th>
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<tr>
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<td>0.033</td>
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<th>COUNTS</th>
<th>%</th>
<th>NO./M3</th>
<th>NO./M2</th>
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<tr>
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<tr>
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<td>13.39</td>
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<td>15018.</td>
</tr>
<tr>
<td>CHAETOGNATH</td>
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</tr>
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<td>2.12</td>
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<td>2376.</td>
</tr>
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<td>0.42</td>
<td>10.56</td>
<td>475.</td>
</tr>
<tr>
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<td>0.34</td>
<td>8.45</td>
<td>380.</td>
</tr>
<tr>
<td>CALANUS FINMARCHICUS A</td>
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<td>0.34</td>
<td>8.45</td>
<td>380.</td>
</tr>
<tr>
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<td>0.25</td>
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<td>285.</td>
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<tr>
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TOTALS 15 1180 100 2492.46 112161.

<table>
<thead>
<tr>
<th>SIZE FRACTIONS (MICRONS)</th>
<th>GRAINS DRY WEIGHT</th>
<th>%</th>
<th>GM/M3</th>
<th>GM/M2</th>
</tr>
</thead>
<tbody>
<tr>
<td>223-505</td>
<td>0.116</td>
<td>18.57</td>
<td>0.0082</td>
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</tr>
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<td>8.69</td>
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<td>0.15</td>
</tr>
<tr>
<td>1050 +</td>
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<td>78.57</td>
<td>0.0377</td>
<td>1.70</td>
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TOTALS 0.700 100 0.0493 2.22

DATA NOT TAKEN

- 172 -
**Atlantic Coastal Experiment - 4**  
**Zooplankton Net Report**  
02-Apr-82 11:24

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>30 Jun 78</td>
<td>17:00:00</td>
<td>40 24.4 N</td>
<td>72 18.7 W</td>
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**Surface Temperature**  
- **Net Mouth Area**: 0.2827 m²  
- **Flow Meter Factor**: 0.1570  
- **Net Mesh**: 223

<table>
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<tr>
<th>Net Tow</th>
<th>Flow Meter</th>
<th>Volume Sample</th>
<th>Fraction Count</th>
<th>Volume Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>49.8</td>
<td>520</td>
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<td>0.033</td>
<td>0.769</td>
</tr>
</tbody>
</table>

**Species**  
- **Oithona similis**  
- **Chaetognath**  
- **Pseudocalanus spp. C**  
- **Pseudocalanus minutus AF**  
- **Calanus spp. C**  
- **Temora spp. C**  
- **Temora longicornis AM**  
- **Paracalanus parvus AF**  
- **Paracalanus spp. C**  
- **Paracalanus parvus AM**  
- **Centropages spp. C**  
- **Pseudocalanus minutus AM**  
- **Paracalanus minutus AM**  
- **Centropages typicus AM**  
- **Centropages typicus AF**  
- **Calanus finmarchicus A**  
- **Temora longicornis AF**  
- **Acartia tonsa AM**

**Totals**  
- **18**  
- **1059**  
- **100**  
- **1376.54**  
- **68557**

**Size Fractions (Microns)**  
<table>
<thead>
<tr>
<th>Size</th>
<th>Weight %</th>
<th>GM/M³</th>
<th>GM/M²</th>
</tr>
</thead>
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<td>0.0031</td>
</tr>
<tr>
<td>505-1050</td>
<td>0.058</td>
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<tr>
<td>1050 +</td>
<td>0.031</td>
<td>86.13</td>
<td>0.0347</td>
</tr>
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</table>

**Totals**  
- **0.930**  
- **100**  
- **0.0403**  
- **2.01**

- Data Not Taken: - 173 -
### ATLANTIC COASTAL EXPERIMENT - 4 ZOOPLANKTON NET REPORT 02-APR-82 11:24

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DEPTH</th>
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</thead>
<tbody>
<tr>
<td>8</td>
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<td>18:53:00</td>
<td>40 19.0 N</td>
<td>72 15.8 W</td>
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<th>SPECIES</th>
<th>RANK</th>
<th>COUNTS</th>
<th>%</th>
<th>NO./M³</th>
<th>NO./M²</th>
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<tbody>
<tr>
<td>PSEUDOCALANUS SPP. C</td>
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<td>320</td>
<td>26.91</td>
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<td>2.0</td>
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<td>18.50</td>
<td>396.54</td>
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<td>13.29</td>
<td>284.79</td>
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<td>10.93</td>
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</tr>
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<td>9.50</td>
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**TOTALS**: 19 1169 100 2145.12 117872.

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<th>WEIGHT %</th>
<th>GM/M³</th>
<th>GM/M²</th>
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<td>0.0020</td>
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**TOTALS**: 1.679 100 0.0757 4.16

- DATA NOT TAKEN
- 174 -
### Species Raw Counts

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<th>Species</th>
<th>Rank</th>
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<th>%</th>
<th>No./M3</th>
<th>No./M2</th>
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<td>0.58</td>
<td>19.50</td>
<td>1209.</td>
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<td>17.55</td>
<td>1088.</td>
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<td>967.</td>
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<td>3.90</td>
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<tr>
<td><em>Acartia tonsa</em> AM</td>
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<td>1.95</td>
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**Totals** 17 1737 100 3386.75 209979.0

### Size Fractions (Microns)

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<tr>
<th>Size Fractions (Microns)</th>
<th>Grams Dry Weight</th>
<th>%</th>
<th>GM/M3</th>
<th>GM/M2</th>
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**Totals** 2.868 100 0.1243 7.70

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*Data not taken*

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### ZOOPLANKTON NET REPORT

**02-APR-82 11:24**

**ATLANTIC COASTAL EXPERIMENT - 4**

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DEPTH</th>
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<tbody>
<tr>
<td>6</td>
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**SURFACE TEMPERATURE**

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<tr>
<th>NET MOUTH</th>
<th>FLOW METER</th>
<th>NET MESH</th>
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<tr>
<td>20.30</td>
<td>0.2877</td>
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**NET DEPTH**

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<td>65.0</td>
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<td>0.470</td>
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- **SPECIES**

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<th>NO./M²</th>
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<tr>
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<tr>
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<td>383.18 24907.</td>
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**TOTALS** | 16 2230 100 | 4747.14 308564. |

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### SIZE FRACTIONS (MICRONS)

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<th>GM/M²</th>
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<tr>
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**TOTALS** | 2.397 100 | 0.1021 6.63 |

- DATA NOT TAKEN

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- 176 -
<table>
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<th>%</th>
<th>NO./M3</th>
<th>NO./M2</th>
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<th>SIZE FRACTIONS (MICRONS)</th>
<th>WEIGHT</th>
<th>%</th>
<th>GM/M3</th>
<th>GM/M2</th>
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- DATA NOT TAKEN

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### Atlantic Coastal Experiment - ZOPLANKTON NET REPORT 02-APR-92 11:24

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<th>NO./M²</th>
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<td>5.93</td>
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Totals 14 1377 100 4082.21 282824.

### Size Fractions (Microns)

<table>
<thead>
<tr>
<th>SIZE FRACTIONS (MICRONS)</th>
<th>Grams Dry Weight %</th>
<th>GM/M³</th>
<th>GM/M²</th>
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Totals 5.833 100 0.1729 11.98

- DATA NOT TAKEN

- 178 -
### ATLANTIC COASTAL EXPERIMENT - 4  ZOOPLANKTON NET REPORT 02-APR-82 11:24

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### SPECIES RANK COUNTS % NO./M3 NO./M2

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- **Pseudocalanus spp. C** - - - - 2.0 335 20.19 339.99 33999.
- **Calanus spp. C** - - - - - - - 3.0 295 17.78 299.39 29939.
- **Oithona similis** - - - - - - - 4.0 215 12.96 218.20 21820.
- **Centropages spp. C** - - - - - - - 5.0 158 9.52 160.35 16035.
- **Pseudocalanus minutus AM** - - - - 6.0 57 3.44 57.85 5785.
- **Centropages typicus AM** - - - - - - 7.0 46 2.77 46.69 4669.
- **Chaetognath** - - - - - - - - 8.0 42 2.53 42.63 4263.
- **Centropages typicus AF** - - - - - - 9.0 21 1.27 21.31 2131.
- **Paracalanus spp. C** - - - - - - - - 10.0 17 1.02 17.25 1725.
- **Paracalanus parvus AF** - - - - - - - - 11.0 15 0.90 15.22 1522.
- **Calanus finmarchicus A** - - - - - - - - 12.0 5 0.30 5.07 507.
- **Acartia spp. C** - - - - - - - - 13.0 2 0.12 2.03 203.
- **Paracalanus parvus AM** - - - - - - - - 14.0 1 0.06 1.01 101.

#### TOTALS
- **14** **1659** **100** **1683.71** **168371.**

### SIZE FRACTIONS (MICRONS) GRAMS DRY

<table>
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<th>GM/M2</th>
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- **3.653** **100** **0.0741** **7.41**

- DATA NOT TAKEN

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- 179 -
ATLANTIC COASTAL EXPERIMENT - 4  ZOOPLANKTON NET REPORT 02-APR-82 11:24

- SPECIES -

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<th>Rank</th>
<th>Counts</th>
<th>%</th>
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<th>No./m²</th>
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<th>COUNTS (%)</th>
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<th>NO./M²</th>
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**SIZE FRACTIONS (MICRONS)**

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<th>GM/M²</th>
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### Size Fractions

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TOTALS 15 1427 100 194.35 19435

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- DATA NOT TAKEN

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## Atlantic Coastal Experiment - 4 Zooplankton Net Report 02-Apr-82 11:24

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<th>Longitude</th>
<th>Depth</th>
</tr>
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<td>16:20:00</td>
<td>40.217° N</td>
<td>67.252° W</td>
<td>439.0</td>
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### Surface Net Mouth Temperature

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<th>AREA</th>
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<tr>
<td>22.56</td>
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### Net Tow Data

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<th>Volume</th>
<th>Fraction</th>
<th>Count</th>
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### Species Counts

<table>
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<th>No./m²</th>
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<tr>
<td>Oithona similis</td>
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<td>530</td>
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<tr>
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<td>4.0</td>
<td>107</td>
<td>8.76</td>
<td>38.01</td>
<td>3901.</td>
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<tr>
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<td>4.42</td>
<td>19.18</td>
<td>1918.</td>
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<td>959.</td>
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<td>0.71</td>
<td>71.</td>
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**Totals**: 14, 1222, 100, 434.07, 43407.

### Size Fractions (Microns)

<table>
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<tr>
<th>Size Fractions (Microns)</th>
<th>Weight %</th>
<th>GM/m³</th>
<th>GM/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>223-505</td>
<td>0.045</td>
<td>6.30</td>
<td>0.0014</td>
</tr>
<tr>
<td>505-1050</td>
<td>0.034</td>
<td>4.76</td>
<td>0.0010</td>
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<tr>
<td>1050+</td>
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<td>88.94</td>
<td>0.0193</td>
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**Totals**: 0.714, 100, 0.0217, 2.17

- Data not taken
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<th>RANK COUNTS</th>
<th>NO./M³</th>
<th>NO./M²</th>
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<td>OITHONA SIMILIS</td>
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<td>27.19</td>
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<td>16.67</td>
</tr>
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<td>PSEUDOCALANUS SPP. C</td>
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<td>158</td>
<td>13.86</td>
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<tr>
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<td>5.53</td>
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<tr>
<td>CHAETOGNATH</td>
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<td>62</td>
<td>5.44</td>
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<td>5.35</td>
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<td>1.84</td>
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<td>0.61</td>
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</tr>
<tr>
<td>CENTROPAGES TYPICUS AF</td>
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<td>0.44</td>
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<td>ACARTIA LONGIREMIS AF</td>
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<table>
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<th>SIZE FRACTIONS (MICRONS)</th>
<th>GRAMS DRY WEIGHT %</th>
<th>GM/M³</th>
<th>GM/M²</th>
</tr>
</thead>
<tbody>
<tr>
<td>223-505</td>
<td>0.035</td>
<td>5.18</td>
<td>0.0007</td>
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<td>505-1050</td>
<td>0.047</td>
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<td>0.0010</td>
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<td>1050 +</td>
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- DATA NOT TAKEN

- 185 -
**Species**

<table>
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<th>Species</th>
<th>Rank</th>
<th>Counts</th>
<th>%</th>
<th>No./m³</th>
<th>No./m²</th>
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<tbody>
<tr>
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**Size Fractions (Microns)**

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<th>Grams Dry Weight</th>
<th>%</th>
<th>GM/m³</th>
<th>GM/m²</th>
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- Data not taken

- 186 -
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<th>NO./M2</th>
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<th>GM/M3</th>
<th>GM/M2</th>
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<tr>
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- DATA NOT TAKEN

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ATLANTIC COASTAL EXPERIMENT - 4 ZOOPLANKTON NET REPORT 02-APR-82 11:24

<table>
<thead>
<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DEPTH</th>
</tr>
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<td>67 50.0 W</td>
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<table>
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<th>FLOW</th>
<th>METER</th>
<th>NET</th>
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<td>AREA</td>
<td>FACTOR</td>
<td>MESH</td>
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</tr>
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<td>0.1570</td>
<td>223</td>
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<table>
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<th>FLOW</th>
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<th>FRACTION</th>
<th>COUNT</th>
<th>VOLUME</th>
<th>COUNT</th>
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<th>COUNTS</th>
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<th>NO./M2</th>
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<td>0.08</td>
<td>1.63</td>
<td>98.</td>
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TOTALS 10 1195 100 1946.33 116780.

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<tr>
<th>SIZE FRACTIONS (MICRONS)</th>
<th>GRAMS DRY</th>
<th>WEIGHT</th>
<th>%</th>
<th>GM/M3</th>
<th>GM/M2</th>
</tr>
</thead>
<tbody>
<tr>
<td>223-505</td>
<td>0.141</td>
<td>10.20</td>
<td>0.0077</td>
<td>0.46</td>
<td></td>
</tr>
<tr>
<td>505-1050</td>
<td>0.084</td>
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<tr>
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TOTALS 1.383 100 0.0751 4.51

DATA NOT TAKEN
**Species**

<table>
<thead>
<tr>
<th>Species</th>
<th>Rank</th>
<th>Counts</th>
<th>%</th>
<th>No./m³</th>
<th>No./m²</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Pseudocalanus spp. C</td>
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**Size Fractions (microns)**

<table>
<thead>
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<th>Size Fractions</th>
<th>Weight %</th>
<th>GM/m³</th>
<th>GM/m²</th>
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<tr>
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- DATA NOT TAKEN
ATLANTIC COASTAL EXPERIMENT - 4  ZOOPLANKTON NET REPORT  02-APR-82  11:24

<table>
<thead>
<tr>
<th>SPECIES</th>
<th>RANK</th>
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<th>%</th>
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<th>NO./M²</th>
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<table>
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<th>GRAMS DRY</th>
<th>WEIGHT %</th>
<th>GM/M³</th>
<th>GM/M²</th>
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<tr>
<td>223-505</td>
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<tr>
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<tr>
<td>1050+</td>
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- DATA NOT TAKEN
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<thead>
<tr>
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<th>Rank</th>
<th>Counts</th>
<th>%</th>
<th>No. /m³</th>
<th>No. /m²</th>
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</thead>
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<table>
<thead>
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<th>Grams Dry Weight (%)</th>
<th>GM/m³</th>
<th>GM/m²</th>
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<th>No./M²</th>
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<td>-</td>
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<tr>
<td>Pseudocalanus spp. C</td>
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<td>-</td>
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<tr>
<td>Calanus spp. C</td>
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**Totals**: 6 1704 100 4607.08 202711.

- Data not taken
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<th>NO./M2</th>
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<td>2</td>
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<td>5.30</td>
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<th>GM/M2</th>
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<tr>
<td>223-505</td>
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<td>0.0140</td>
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<tr>
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<td>0.0059</td>
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- DATA NOT TAKEN
### SPECIES RANK COUNTS

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<th>COUNTS</th>
<th>%</th>
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<th>NO./M²</th>
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<tbody>
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### SIZE FRACTIONS (MICRONS)

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<th>%</th>
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<th>GM/M²</th>
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- DATA NOT TAKEN
### Species and Counts

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<th>NO./m²</th>
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<td>22.33</td>
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<tr>
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<td>1.59</td>
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<tr>
<td>Chaetognath</td>
<td>7.0</td>
<td>11</td>
<td>0.79</td>
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### Size Fractions (Microns)

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<tr>
<th>Size Fractions</th>
<th>Weight %</th>
<th>GM/M³</th>
<th>GM/M²</th>
</tr>
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- DATA NOT TAKEN
# ZOOPLANKTON NET REPORT

**02-APR-82 11:24**

## Station Data

<table>
<thead>
<tr>
<th>Station</th>
<th>Date</th>
<th>Time</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Depth</th>
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<tr>
<td>28</td>
<td>3 Jul 78</td>
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<td>41 38.6 N</td>
<td>68 39.7 W</td>
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## Temperature Net Measurements

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<th>Net Mouth Flow Meter</th>
<th>Net Factor</th>
<th>Net Mesh</th>
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<tr>
<td>16.53</td>
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## Net Tow Measurements

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<th>Flow Meter Depth</th>
<th>Volume Sample</th>
<th>Fraction Count</th>
<th>Volume Count</th>
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## Species Counts

<table>
<thead>
<tr>
<th>Species</th>
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<th>Counts</th>
<th>%</th>
<th>No./M³</th>
<th>No./M²</th>
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<tbody>
<tr>
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<td>563</td>
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**Totals:** 12 1242 100 194.33 19433

## Size Fractions (Microns)

<table>
<thead>
<tr>
<th>Size Fractions (Microns)</th>
<th>Grams Dry Weight %</th>
<th>Grams/M³</th>
<th>Grams/M²</th>
</tr>
</thead>
<tbody>
<tr>
<td>223-505</td>
<td>0.006 0.42</td>
<td>0.0001</td>
<td>0.01</td>
</tr>
<tr>
<td>505-1050</td>
<td>0.030 2.08</td>
<td>0.0007</td>
<td>0.07</td>
</tr>
<tr>
<td>1050 +</td>
<td>1.407 97.51</td>
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</tbody>
</table>

**Totals:** 1.443 100 0.0339 3.39

- DATA NOT TAKEN
**STATION** | **DATE** | **TIME** | **LATITUDE** | **LONGITUDE** | **DEPTH**
--- | --- | --- | --- | --- | ---
29 | 3 JUL 78 | 22:26:00 | 41 45.0 N | 68 46.0 W | 176.0

**SURFACE TEMPERATURE** | **NET MOUTH AREA** | **FLOW METER FACTOR** | **NET MESH**
--- | --- | --- | ---
15.78 | 0.2827 | 0.1570 | 223

**NET TO Depth** | **FLOW VOLUME FRACTION VOLUME**
--- | --- | --- | ---
75.6 | 1060. | 47.05 | 0.100 | 4.705

**SPECIES**

<table>
<thead>
<tr>
<th>SPECIES</th>
<th>RANK</th>
<th>COUNTS</th>
<th>%</th>
<th>NO./M3</th>
<th>NO./M2</th>
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<tbody>
<tr>
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<td>6.17</td>
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<td>35</td>
<td>2.10</td>
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<tr>
<td>CENTROPAGES TYPICUS AM</td>
<td></td>
<td></td>
<td>7.5</td>
<td>35</td>
<td>2.10</td>
</tr>
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<td>22</td>
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<td>6</td>
<td>0.35</td>
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<tr>
<td>ACARTIA SPP. C</td>
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<td>4</td>
<td>0.24</td>
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<td></td>
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<td>4</td>
<td>0.24</td>
</tr>
<tr>
<td>CHAETOGHATH</td>
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<td></td>
<td>13.0</td>
<td>1</td>
<td>0.06</td>
</tr>
</tbody>
</table>

**TOTALS** | | | 13 | 1669 | 100 | 354.75 | 27176. |

**SIZE FRACTIONS (MICRONS)**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>FRACTIONS</th>
<th>GRAMS DRY WEIGHT</th>
<th>%</th>
<th>GM/M3</th>
<th>GM/M2</th>
</tr>
</thead>
<tbody>
<tr>
<td>223-505</td>
<td></td>
<td></td>
<td>0.012</td>
<td>0.30</td>
<td>0.0003</td>
</tr>
<tr>
<td>505-1050</td>
<td></td>
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<td>0.069</td>
<td>1.73</td>
<td>0.0015</td>
</tr>
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<td>1050 +</td>
<td></td>
<td></td>
<td>3.909</td>
<td>97.97</td>
<td>0.0831</td>
</tr>
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</table>

**TOTALS** | | | 3.990 | 100 | 0.0848 | 6.50 |

*DATA NOT TAKEN*
# Zooplankton Net Report

**Station:** ATLANTIC COASTAL EXPERIMENT - 4  
**Date:** 02-APR-82  
**Time:** 11:24

**Species**

<table>
<thead>
<tr>
<th>Species</th>
<th>Rank</th>
<th>Counts</th>
<th>%</th>
<th>No./M³</th>
<th>No./M²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chaetognath</td>
<td>1</td>
<td>470</td>
<td>41.89%</td>
<td>180.50</td>
<td>9747</td>
</tr>
<tr>
<td>Pseudocalanus spp. C</td>
<td>2</td>
<td>160</td>
<td>14.26%</td>
<td>61.45</td>
<td>3318</td>
</tr>
<tr>
<td>Oithona similis</td>
<td>3</td>
<td>145</td>
<td>12.92%</td>
<td>55.69</td>
<td>3007</td>
</tr>
<tr>
<td>Calanus finmarchicus A</td>
<td>4</td>
<td>140</td>
<td>12.48%</td>
<td>53.77</td>
<td>2903</td>
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<tr>
<td>Calanus spp. C</td>
<td>5</td>
<td>102</td>
<td>9.09%</td>
<td>39.17</td>
<td>2115</td>
</tr>
<tr>
<td>Pseudocalanus minutus AF</td>
<td>6</td>
<td>79</td>
<td>7.04%</td>
<td>30.34</td>
<td>1638</td>
</tr>
<tr>
<td>Pseudocalanus minutus AM</td>
<td>7</td>
<td>17</td>
<td>1.52%</td>
<td>6.53</td>
<td>353</td>
</tr>
<tr>
<td>Acartia longiremis AM</td>
<td>8</td>
<td>3</td>
<td>0.27%</td>
<td>1.15</td>
<td>62</td>
</tr>
<tr>
<td>Acartia spp. C</td>
<td>9</td>
<td>3</td>
<td>0.27%</td>
<td>1.15</td>
<td>62</td>
</tr>
<tr>
<td>Acartia longiremis AF</td>
<td>10</td>
<td>2</td>
<td>0.18%</td>
<td>0.77</td>
<td>41</td>
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<tr>
<td>Temora longicornis AF</td>
<td>11</td>
<td>1</td>
<td>0.09%</td>
<td>0.38</td>
<td>21</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td>1122</td>
<td>100%</td>
<td>430.90</td>
<td>23269</td>
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</tbody>
</table>

**Size Fractions (Microns)**

<table>
<thead>
<tr>
<th>Size Fractions</th>
<th>Weight %</th>
<th>GM/M³</th>
<th>GM/M²</th>
</tr>
</thead>
<tbody>
<tr>
<td>223-505</td>
<td>3.95</td>
<td>0.0005</td>
<td>0.03</td>
</tr>
<tr>
<td>505-1050</td>
<td>7.71</td>
<td>0.0011</td>
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<tr>
<td>1050+</td>
<td>88.34</td>
<td>0.0123</td>
<td>0.67</td>
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<tr>
<td><strong>Totals</strong></td>
<td>100%</td>
<td>0.0139</td>
<td>0.75</td>
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</table>

- **Data Not Taken**
### Zooplankton Net Report

**Station:** 34  
**Date:** 5 JUL 78  
**Time:** 21:24:00  
**Latitude:** 34.0 N  
**Longitude:** 69 14.0 W  
**Depth:** 63.0

<table>
<thead>
<tr>
<th>Temperature Area Factor Mesh</th>
<th>Surface Net Mouth Flow Meter Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.41</td>
<td>0.2827</td>
</tr>
</tbody>
</table>

- **Net Tow Flow Volume Fraction Volume Depth Meter Sample Count Count**
  - 58.0 5388. 41.58 0.025 1.040

<table>
<thead>
<tr>
<th>Species</th>
<th>Rank Counts %</th>
<th>No./M3</th>
<th>No./M2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calanus spp. C</td>
<td>1.5 475 28.81</td>
<td>456.92</td>
<td>26501</td>
</tr>
<tr>
<td>Pseudocalanus spp. C</td>
<td>1.5 475 28.81</td>
<td>456.92</td>
<td>26501</td>
</tr>
<tr>
<td>Pseudocalanus minutus AF</td>
<td>3.5 165 10.01</td>
<td>158.72</td>
<td>9206</td>
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<tr>
<td>Oithona similis</td>
<td>3.5 165 10.01</td>
<td>158.72</td>
<td>9206</td>
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<tr>
<td>Centropages spp. C</td>
<td>5.0 125 7.58</td>
<td>120.24</td>
<td>6974</td>
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<tr>
<td>Chaetognath</td>
<td>6.0 95 5.76</td>
<td>91.38</td>
<td>5300</td>
</tr>
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<td>Pseudocalanus minutus AM</td>
<td>7.0 43 2.61</td>
<td>41.96</td>
<td>2399</td>
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<tr>
<td>Paracalanus spp. C</td>
<td>8.0 30 1.82</td>
<td>28.86</td>
<td>1674</td>
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<td>Centropages typicus AM</td>
<td>9.0 24 1.46</td>
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<td>1339</td>
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<tr>
<td>Calanus finmarchicus A</td>
<td>10.0 23 1.39</td>
<td>22.12</td>
<td>1283</td>
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<td>14.43</td>
<td>837</td>
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<tr>
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<tr>
<td><strong>TOTALS</strong></td>
<td>14 1649 100</td>
<td>1585.22</td>
<td>92001</td>
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### Size Fractions (microns)

<table>
<thead>
<tr>
<th>Size Fractions</th>
<th>Grams Dry Weight %</th>
<th>GM/M3</th>
<th>GM/M2</th>
</tr>
</thead>
<tbody>
<tr>
<td>223-505</td>
<td>0.097 4.79</td>
<td>0.0033</td>
<td>0.14</td>
</tr>
<tr>
<td>505-1050</td>
<td>0.071 3.50</td>
<td>0.0017</td>
<td>0.10</td>
</tr>
<tr>
<td>1050+</td>
<td>1.858 91.71</td>
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<td>2.59</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td>2.026 100</td>
<td></td>
<td></td>
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*Data not taken*
### Zooplankton Net Report

**Station:** Atlantic Coastal Experiment - 4  
**Date:** 02-Apr-82  
**Time:** 11:24

<table>
<thead>
<tr>
<th>Station</th>
<th>Date</th>
<th>Time</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>6 Jul 78</td>
<td>02:30:00</td>
<td>40 34.3 N</td>
<td>70 19.2 W</td>
<td>62.0</td>
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</table>

**Surface Temperature:** 15.0°F  
**Net Mouth Area:** 0.2827 ft²  
**Flow Meter Factor:** 0.1570  
**Net Mesh:** 223

**Net Tow Depth:** 30.0 ft  
**Flow Meter Sample:** 545.0  
**Volume:** 24.19  
**Fraction:** 0.044  
**Count:** 1.075

### Species

<table>
<thead>
<tr>
<th>Species</th>
<th>Rank</th>
<th>Counts</th>
<th>%</th>
<th>No./M³</th>
<th>No./M²</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Pseudocalanus</em> spp. C</td>
<td>-</td>
<td>1.0</td>
<td>595</td>
<td>33.65</td>
<td>553.45</td>
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<tr>
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<td>350</td>
<td>19.80</td>
<td>325.56</td>
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<tr>
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<td>18.95</td>
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<td>70</td>
<td>3.96</td>
<td>65.11</td>
</tr>
<tr>
<td><em>Chaetognath</em></td>
<td>-</td>
<td>6.0</td>
<td>55</td>
<td>3.11</td>
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<td>28</td>
<td>1.58</td>
<td>25.04</td>
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<td>12</td>
<td>0.68</td>
<td>11.16</td>
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<tr>
<td><em>Centropages</em> spp. C</td>
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<td>11.5</td>
<td>12</td>
<td>0.68</td>
<td>11.16</td>
</tr>
<tr>
<td><em>Paracalanus parvus</em> AM</td>
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<td>0.17</td>
<td>2.79</td>
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<tr>
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<td>3</td>
<td>0.17</td>
<td>2.79</td>
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<td>3</td>
<td>0.17</td>
<td>2.79</td>
</tr>
<tr>
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<td>1</td>
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<td>-</td>
<td>17.5</td>
<td>1</td>
<td>0.06</td>
<td>0.93</td>
</tr>
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</table>

**Total** 18 1768 100 1644.53 49336

### Size Fractions (Microns)

<table>
<thead>
<tr>
<th>Size Fraction (Microns)</th>
<th>Weight %</th>
<th>GM/M³</th>
<th>GM/M²</th>
</tr>
</thead>
<tbody>
<tr>
<td>223-505</td>
<td>0.052</td>
<td>0.0021</td>
<td>0.06</td>
</tr>
<tr>
<td>505-1000</td>
<td>0.047</td>
<td>0.0019</td>
<td>0.06</td>
</tr>
<tr>
<td>1050+</td>
<td>2.755</td>
<td>0.1139</td>
<td>3.42</td>
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</table>

**Total** 2.854 100 0.1180 3.54

- Data not taken
**ATLANTIC COASTAL EXPERIMENT - 4**

**ZOOPLOKTON NET REPORT** - 02-APR-82 11:24

---

**STATION** 38  
**DATE** 06 JUL 78  
**TIME** 07:28:00  
**LATITUDE** 40° 36.8' N  
**LONGITUDE** 71° 21.7' W  
**DEPTH** 65.0

---

**SURFACE TEMPERATURE** 13.89°C  
**NET MOUTH AREA** 0.2827 m²  
**FLOW METER FACTOR** 0.1570  
**NET MESH** 223

---

**NET FLOW VOLUME** 59.0 m³  
**SAMPLING DEPTH** 26.54 m  
**SAMPLE COUNT** 0.022  
**COUNT VOLUME** 0.590

---

**SPECIES**  
**RANK COUNTS % NO./M³ NO./M²**

<table>
<thead>
<tr>
<th>Species</th>
<th>Count</th>
<th>%</th>
<th>NO./M³</th>
<th>NO./M²</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1237.68</td>
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</tr>
<tr>
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</tr>
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<td>2.92</td>
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<td>2.86</td>
<td>91.55</td>
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<td>2.07</td>
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<td>27.13</td>
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<tr>
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<tr>
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<td>11.0</td>
<td>11</td>
<td>0.58</td>
<td>19.65</td>
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<tr>
<td>Centropages typicus AF</td>
<td>12.0</td>
<td>8</td>
<td>0.42</td>
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<td>2</td>
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</tr>
<tr>
<td>Temora spp. C</td>
<td>15.0</td>
<td>2</td>
<td>0.11</td>
<td>3.39</td>
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<tr>
<td>Temora longicornis am</td>
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<td>2</td>
<td>0.11</td>
<td>3.39</td>
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<tr>
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<td>17.0</td>
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<td>0.05</td>
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</table>

**TOTALS** 17 1885 100 3195.93 185364

---

**SIZE FRACTIONS (MICRONs)**

<table>
<thead>
<tr>
<th>Size Fraction</th>
<th>%</th>
<th>GM/M³</th>
<th>GM/M²</th>
</tr>
</thead>
<tbody>
<tr>
<td>225-505</td>
<td>0.130</td>
<td>0.0049</td>
<td>0.28</td>
</tr>
<tr>
<td>505-1050</td>
<td>0.130</td>
<td>0.0049</td>
<td>0.28</td>
</tr>
<tr>
<td>1050+</td>
<td>2.556</td>
<td>0.0963</td>
<td>5.59</td>
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</tbody>
</table>

**TOTALS** 2.816 100 0.1061 6.15

---

DATA NOT TAKEN

- 201 -
### SPECIES RANK COUNTS

<table>
<thead>
<tr>
<th>SPECIES</th>
<th>RANK</th>
<th>COUNTS</th>
<th>%</th>
<th>NO./M³</th>
<th>NO./M²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pseudocalanus spp. C</td>
<td></td>
<td>1.0</td>
<td>420</td>
<td>28.67</td>
<td>591.43</td>
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<tr>
<td>Pseudocalanus minutus AF</td>
<td></td>
<td>2.0</td>
<td>245</td>
<td>16.72</td>
<td>345.00</td>
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<tr>
<td>Oithona similis</td>
<td></td>
<td>3.0</td>
<td>228</td>
<td>15.56</td>
<td>321.06</td>
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<tr>
<td>Calanus spp. C</td>
<td></td>
<td>4.0</td>
<td>160</td>
<td>10.92</td>
<td>225.31</td>
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<tr>
<td>Chaetognath</td>
<td></td>
<td>5.0</td>
<td>81</td>
<td>5.53</td>
<td>114.06</td>
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<tr>
<td>Centropages spp. C</td>
<td></td>
<td>6.0</td>
<td>74</td>
<td>5.05</td>
<td>104.40</td>
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<tr>
<td>Paracalanus spp. C</td>
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<td>46</td>
<td>3.14</td>
<td>64.78</td>
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<tr>
<td>Paracalanus parvus AF</td>
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<td>9.0</td>
<td>39</td>
<td>2.66</td>
<td>54.92</td>
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<tr>
<td>Pseudocalanus minutus AM</td>
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<td>10.0</td>
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<tr>
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<td>11.0</td>
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<td>1.98</td>
<td>40.84</td>
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<td>1.91</td>
<td>39.43</td>
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<tr>
<td>Acartia spp. C</td>
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<td>0.75</td>
<td>15.49</td>
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<tr>
<td>Paracalanus parvus AM</td>
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<td>15.0</td>
<td>4</td>
<td>0.27</td>
<td>5.63</td>
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<tr>
<td>Acartia longiremis AF</td>
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<td>4</td>
<td>0.27</td>
<td>5.63</td>
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<tr>
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<td>16</td>
<td>1465</td>
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<td>123778.</td>
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### SIZE FRACTIONS (MICRONS)

<table>
<thead>
<tr>
<th>SIZE FRACTIONS (MICRONS)</th>
<th>WEIGHT</th>
<th>%</th>
<th>GM/M³</th>
<th>GM/M²</th>
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</thead>
<tbody>
<tr>
<td>223-505</td>
<td>0.082</td>
<td>2.46</td>
<td>0.0033</td>
<td>0.20</td>
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<td>505-1050</td>
<td>0.079</td>
<td>2.37</td>
<td>0.0032</td>
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<tr>
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<td>0.0171</td>
<td>95.17</td>
<td>0.1276</td>
<td>7.85</td>
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<td><strong>TOTALS</strong></td>
<td>3.332</td>
<td>100</td>
<td>0.1341</td>
<td>8.04</td>
</tr>
</tbody>
</table>

- DATA NOT TAKEN